РЕПУБЛИКА СРБИЈА
ВЛАДА
05 Број: 340-05-5892/2021-1
25 JUN 2021 20___ год
БЕОГРАД, Немањина 11

„Инфраструктура железнице Србије" а.д.
Бр. 1/2021-1550/385/1
25.06.2021 год.
БЕОГРАД, Немањина број 6

CHINA RAILWAY INTERNATIONAL CO., LTD. SERBIA
Br/No. CRIC(S)/2021/003-112
Datum/Date 25-06-2021

Government of the Republic of Serbia	„Infrastructure of Serbian Railways" JSC	Joint Venture of China Railway International Co.Ltd & China Communications Construction Company Ltd

ANNEX 1
TO THE COMMERCIAL CONTRACT ON MODERNIZATION AND RECONSTRUCTION OF HUNGARIAN-SERBIAN RAILWAY CONNECTION IN THE TERRITORY OF THE REPUBLIC OF SERBIA,
SECTION: NOVI SAD – SUBOTICA – STATE BORDER (KELEBIJA)

June, 2021.

ANNEX 1

TO THE COMMERCIAL CONTRACT ON MODERNIZATION AND RECONSTRUCTION OF HUNGARIAN-SERBIAN RAILWAY CONNECTION IN THE TERRITORY OF THE REPUBLIC OF SERBIA,

SECTION: NOVI SAD – SUBOTICA – STATE BORDER (KELEBIJA)

Concluded in Belgrade, on June 25th 2021,

Between the Contracting Parties:

1. Government of the Republic of Serbia, Belgrade, Nemanjina 11, represented by Mr. Tomislav Momirović, the Minister of Construction, Transport and Infrastructure (hereinafter referred to as: Financier). Conclusion of the Government of the Republic of Serbia 05 Number: 340-5892/2021 dated June 24th 2021.

and

2. Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways" (Akcionarsko društvo za upravljanje javnom železničkom infrastrukturom "Infrastruktura železnice Srbije"), Belgrade, Nemanjina 6, registration No 21127094, tax identification 109108420, registered with the Business Entities Agency in Belgrade, represented by Mr. Nebojša Šurlan, Acting Director General (hereinafter referred to as: Investor). Decision of the Board of Directors Number: 4/2021-2765-595 dated June 6th 2021.

and

3. Joint Venture of China Railway International Co.Ltd & China Communications Construction Company Ltd, respectively registered at the Business Register Agency of the People's Republic of China, respectively with the number 91110000071784557XG/100000000040563, with the license to perform business activities in the area of performance of construction works abroad under number 1100201500025/1100200500320, represented by Mr. Ju Guojiang the Legal Representatives of the Company / Mr. Wang Tongzhou the Chairmen of the Company Boards (hereinafter referred to as: Contractor).

Hereinafter collectively referred to as: Contracting Parties.

Subject Matter of Annex I to the Commercial Contract

Article 1

Annex 1 to the Commercial Contract on Modernization and Reconstruction of Hungarian-Serbian Railway Connection in the Territory of the Republic of Serbia, section Novi Sad – Subotica - state border (Kelebija) (hereinafter referred to as: the Contract) defines the Table of Prices in line with Article 6 of the Contract.

Table of Prices

Article 2

Table of Prices is defined in Appendix 1 which is an integral part of this Annex 1.

Table of Prices referred to in paragraph 1 of this article has been prepared in accordance with the accepted contract amount determined in Article 4 of the Contract and the corresponding payment provisions in the Contract and consists of two Sections: I) Construction fee, II) Design fee.

Each Section in this Table of Prices is composed of several items.

Any Changes in the Accepted Contract Amount due to Variations and Adjustments requested by the Financier and the Investor, or Adjustments for changes in the legislation of the Republic of Serbia, after the Base Date, shall be implemented in accordance with the provisions of the Commercial Contract.

Table of Prices includes all items from the technical documentation (except Changes stated in paragraph 4 of this Article) stated in the Commercial Contract, as well as all obligations under the Commercial Contract.

Manner of Submission of Payment Certificates

Article 3

The Contracting Parties agreed to amend Article 6 to the Contract by virtue of the present Annex, by adding paragraphs 6 and 7 after the paragraph 5 of the Article 6, reading as follows:

- For execution of works (section I)

The Contractor undertakes to submit the interim payment certificate in 2 (two) parts, in 6 (six) original counterparts for each payment, as follows:

- one part, in the amount of 85% of the value of executed works, which shall be paid from the proceeds of the Export Import Bank of China, in line with the Loan Agreement.

- one part, in the amount of 15% of the value of executed works, which shall be paid from the proceeds of the Financier.

- For design (section II)

The Contractor undertakes to submit, for the Design Fee from the Table of Prices, the payment certificate in 6 (six) original counterparts for each payment, as follows:

- one part in the amount of 85% of the value of design, which shall be paid from the proceeds of the Export Import Bank of China, in line with the Loan Agreement.

- one part in the amount of 15% of the value of design, which shall be paid from the proceeds of the Financier.

Article 4

The Contracting Parties agree to amend the Article 69 of the Contract by virtue of this Annex, by adding paragraph 2 after the paragraph 1 in the Article 69 of the Contract, reading as follows:

The Engineer shall determine the amount in every interim payment certificate based on the quantity of executed works, specified as a percentage of unit quantity or unit price in the Table of Prices.

Other Provisions

Article 5

Unless otherwise specified in the present Annex 1, all other provisions of the Commercial Contract shall remain unchanged.

Article 6

The present Annex is drawn up in Serbian and English languages in nine (9) identical copies in both languages, three (3) for the Financier, three (3) for the Investor and three (3) for the Contractor. Governing version of the Annex 1 to the Contract is the version in English language.

Article 7

Annex 1 to the Commercial Contract shall enter into force upon signing thereof and shall thereby become integral part of the Contract.

GOVERNMENT OF THE REPUBLIC OF SERBIA

(Tomislav Momirovic, Minister of Construction, Transport and Infrastructure)

"INFRASTRUCTURE OF SERBIAN RAILWAYS" JSC

(Nebojša Šurlan, Acting Director General)

CONTRACTOR

China Railway International Co. Ltd.
(Ju Guojiang, Legal Representatives)

China Communications Construction Company. Ltd.
(Wang Tongzhou, Chairman)

Attachment 1

Appendix 1

TABLE OF PRICE			
No.	**Part**	**Amount (USD)**	**Page**
I	**CONSTRUCTION FEE**	**1,127,925,700**	
1	Architecture Works	16,600,314	1-11
2	Substructure Works	209,735,688	12-30
3	Superstructure Works	249,437,955	31-55
4	Bridge, Culvert and Underpass	253,938,256	56-76
5	Access Road and Road Detour	27,374,721	77-91
6	Drainage Works	8,971,793	92-93
7	Overhead Contact System	80,679,702	94-134
8	Traction Transformation	22,273,130	135-156
9	Power Supply	26,601,912	157-163
10	Signaling System	116,510,191	164-230
11	Telecommunication System	71,650,868	231-326
12	Termotechnical Installations & Fire Suppression	5,809,444	327-332
13	Mechanical installations and works	2,610,409	333-335
14	Roads traffic Signalization and Equipment	1,371,233	336-337
15	Landscaping ,Planning of Platform and Evironment Measures	34,360,084	338-340
II	**DESIGN FEE**	**34,884,300**	
1	Design Fee(PGD)	17,442,150	
2	Design Fee(PZI)	17,442,150	
	TOTAL :	**1,162,810,000**	

1. This Table of Price is made based on the Draft Preliminary Design provided by the Investor during negotiation of the Contract Price, and refined according to the Approved Preliminary Design.
2. This Table of Price covers all the Contractor's work scope under the Commercial Contract, i.e, work scope detailed defined in the Draft Preliminary Design provided by the Investor during negotiation of the Contract Price. Any additional works or increased work scope added to the Approved Preliminary Design compared to the Draft Preliminary Design is not included in this Table of Price.

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Architectural design of reconstruction and adaptation of the station building, including landscaping in Novi Sad railway station						
1	Preliminary works	Dismantling and demolition	Completion of preliminary works	1	360,447	360,447	1/1.1
2	Earth, concrete, reinforcement, masonry works	Earth, concrete, reinforcement, masonry works	Completion of earth, concrete, reinforcement, masonry works	1	182,368	182,368	1/1.1
3	Dry montage, and insulation works	Dry montage, and insulation works	Completion of dry montage, and insulation works.	1	795,450	795,450	1/1.1
4	Aluminum joinery and Locksmith's works	Aluminum joinery and Locksmith's works	Completion of aluminum joinery and Locksmith's works	1	1,230,792	1,230,792	1/1.1
5	Tinsmith, steel, ceramic, flooring, rendering and painting works	Including tinsmith, steel, ceramic, flooring, rendering and painting works	Completion of tinsmith, steel, ceramic, flooring, rendering and painting works	1	292,892	292,892	1/1.1
6	Other decoration works	Including stone, facade, various works	Completion of other decoration works	1	280,160	280,160	1/1.1
7	Landscaping works		Completion of landscaping works	1	93,410	93,410	1/1.1
8	Traffic surfaces		Completion of traffic surfaces	1	56,683	56,683	1/1.1
B	Architectural design of extension and adaptation of subway and canopy in Novi Sad railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	56,418	56,418	1/1.2
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	153,518	153,518	1/1.2
C	Architectural design of construction and reconstruction of building for electrical traction substation – ETS Novi Sad						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	170,952	170,952	1/1.3
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	64,245	64,245	1/1.3

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
D	Architectural design of extension and reconstruction of building for electrical engineering operations – OCL section Novi Sad						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	63,448	63,448	1/1.4
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	134,543	134,543	1/1.4
E	Architectural design of subway and canopy in technical passenger station (TPS) Novi Sad						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	22,367	22,367	1/1.5
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	60,865	60,865	1/1.5
F	Architectural design of building for signalling and telecommunications with movements inspector in Sajlovo location, including landscaping						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	169,731	169,731	1/2.1
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	115,879	115,879	1/2.1
G	Architectural design of adaptation of building for signalling and telecommunications in Sajlovo location						
1	Demolition and dismantling works		completion of dismantling concrete, reinforcement, insulation and masonry works	1	1,623	1,623	1/2.2
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	13,608	13,608	1/2.2
H	Architectural design of building for signalling and telecommunications with movements inspector in Rumenka location, including landscaping						

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	159,576	159,576	1/3.
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	115,879	115,879	1/3.
I	Architectural design of reconstruction and rehabilitation of the facade of station building, including landscaping, in Kisač railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	28,572	28,572	1/4.1
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	69,591	69,591	1/4.1
J	Architectural design of reconstruction and extension of building for signalling and telecommunications with movements inspector in Kisač railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	137,537	137,537	1/4.2
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	61,560	61,560	1/4.2
K	Architectural design of subway and canopy Kisač railway station						
	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	95,276	95,276	1/4.3
L	Architectural design of sectioning point - SP Kisač						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	97,251	97,251	1/4.4

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	34,903	34,903	1/4.4
M	Architectural design of pedestrian and bicycle subway						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	9,047	9,047	1/4.5
N	Architectural design of building for signalling and telecommunications with movements inspector in Stepanovićevo stopping place, including landscaping						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	174,137	174,137	1/5.1
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	108,566	108,566	1/5.1
O	Architectural design of subway and canopy in Stepanovićevo stopping place						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	96,413	96,413	1/5.2
P	Architectural design of reconstruction and rehabilitation of the facade of station building, including landscaping, in Zmajevo railway station						
1	Demolition and dismantling works		completion of dismantling concrete, reinforcement, insulation and masonry works	1	31,954	31,954	1/6.1
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	88,793	88,793	1/6.1
Q	Architectural design reconstruction and extension of building for signalling and telecommunications with movements inspector in Zmajevo railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	137,537	137,537	1/6.2

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	61,560	61,560	1/6.2
R	Architectural design of subway and canopy in Zmajevo railway station						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	96,413	96,413	1/6.3
S	Architectural design of building for sectioning point with neutral line – SPN Zmajevo						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	97,251	97,251	1/6.4
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	34,903	34,903	1/6.4
T	Architectural design of station building, including landscaping, in Vrbas railway station						
1	Structure works	Including earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	271,143	271,143	1/7.1
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	166,325	166,325	1/7.1
U	Architectural design of building for signalling and telecommunications in Vrbas railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	154,666	154,666	1/7.2
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	74,096	74,096	1/7.2
V	Architectural design of subway and canopy in Vrbas railway station						

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	165,910	165,910	1/7.3
W	Architectural design of construction and reconstruction of building for electric traction substation - ETS Vrbas						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	197,174	197,174	1/7.4
2	Open plant works	Including the reconstruction of an open plant	Completion of the reconstruction of an open plant	1	43,252	43,252	1/7.4
X	Architectural design of building for signalling and telecommunications with movements inspector in Lovćenac / Mali Iđoš railway station, including landscaping						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	159,576	159,576	1/8.1
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	174,780	174,780	1/8.1
Y	Architectural design of subway and canopy in Lovćenac / Mali Iđoš railway station						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	91,299	91,299	1/8.2
Z	Architectural design of building for sectioning point – SP Lovćenac						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	97,251	97,251	1/8.3
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	34,903	34,903	1/8.3
AA	Architectural design of reconstruction and adaptation of the station building, including landscaping in Bačka Topola railway station						

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	41,980	41,980	1/9.1
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	177,257	177,257	1/9.1
AB	Architectural design of reconstruction and extension of building for signalling and telecommunications in Bačka Topola railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	131,940	131,940	1/9.2
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	62,533	62,533	1/9.2
AC	Architectural design of subway and canopy in Bačka Topola railway station						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	87,182	87,182	1/9.3
AD	Architectural design of building for sectioning point with neutral line – SPN Bačka Topola						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	1,417	1,417	1/9.4
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	86,217	86,217	1/9.4
AE	Architectural design of pedestrian and bicycle subway						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	13,074	13,074	1/9.5

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
AF	Architectural design of reconstruction and rehabilitation of the facade of station building, including landscaping, in Žednik railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	147,317	147,317	1/10.1
2	Landscaping	Including landscaping works	Completion of Landscaping works	1			1/10.1
AG	Architectural design of reconstruction and extension of building for signalling and telecommunications with movements inspector in Žednik railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	131,244	131,244	1/10.2
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	65,931	65,931	1/10.2
AH	Architectural design of subway and canopy in Žednik railway station						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	87,569	87,569	1/10.3
AI	Architectural design of building for sectioning point – SP Žednik						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	97,251	97,251	1/10.4
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	34,903	34,903	1/10.4
AJ	Architectural design of reconstruction and rehabilitation of the facade of station building, including landscaping, in Naumovićevo railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	116,613	116,613	1/11.1

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	40,866	40,866	1/11.1
AK	Architectural design of reconstruction and extension of building for signalling and telecommunications with movements inspector in Naumovićevo railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	154,642	154,642	1/11.2
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	54,193	54,193	1/11.2
AL	Architectural design of subway and canopy in Naumovićevo railway station						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	90,347	90,347	1/11.3
AM	Architectural design of reconstruction and adaptation of the station building, including landscaping in Subotica railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	1,817,118	1,817,118	1/12.1
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	1,854,202	1,854,202	1/12.1
3	Reparation and upgrading of canopy with platform No.1		Completion of reparation and upgrading of canopy with platform No.1	1	255,949	255,949	1/12.1
4	Landscaping works 1	Square in front the railway station, traffic and pedestrain surfaces, landscaping, urban equipment	Completion of Landscaping works 1	1	530,071	530,071	1/12.1
5	Landscaping works 2	Connecting of square in front the railway station with corridor under the platforms	Completion of Landscaping works 2	1	129,906	129,906	1/12.1

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Landscaping works 3	Connecting of station building and existing office facilities with the platform No.1	Completion of Landscaping works 3	1	229,196	229,196	1/12.1
AN	Architectural design of adaptation and extension of building for signalling and telecommunications in Subotica passenger railway station						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	138,745	138,745	1/12.2
AO	Architectural design of subway and canopy in Subotica passenger railway station						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	157,254	157,254	1/12.3
AP	Architectural design of construction and reconstruction of building of electric traction substation – ETS Subotica						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	197,174	197,174	1/12.4
2	Open plant works	Including the reconstruction of an open plant	Completion of the reconstruction of an open plant	1	36,288	36,288	1/12.4
AQ	Architectural design of building of sectioning point – SP Subotica						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	97,251	97,251	1/12.5
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	34,903	34,903	1/12.5
AR	Architectural design of building for electrical engineering operations – OCL section Subotica						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	417,537	417,537	1/12.6

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	409,365	409,365	1/12.6
AS	Architectural design of service building of Serbia Cargo, Ministry of Interior, Inspection and Customs authorities, including landscaping in Subotica freight railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	314,281	314,281	1/12.7
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	110,137	110,137	1/12.7
AT	Architectural design of service subway and canopy in Subotica freight railway station						
1	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	102,530	102,530	1/12.8
AU	Architectural design of building for sectioning point with neutral line – SPN State border (Kelebia)						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	97,251	97,251	1/13
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	34,903	34,903	1/13
AV	Architectural design of standard building for accommodation of telecommunications equipment, including landscaping						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	28,498	28,498	1/14
2	Decoration works	Including aluminum, steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminum, steel works, tinsmith, ceramic, flooring and other decoration of the building	1	298,786	298,786	1/14

1. Architecture Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
	Summary(USD)					16,600,314	

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Novi Sad station (km 76+224.17 - km 77+411.09)						
1	Preliminary works	Including clearing of site, cutting trees, removal of fences, demolition and removal of existing facilities.	Completion of works	1	52,838	52,838	2/2-1.1
2	Removal ballast		Completion of the works for the left or right side of the station	2	66,489	132,978	2/2-1.1
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil .	Completion of the works for the left or right side of the station	2	4,429	8,858	2/2-1.1
4	Excavation		Completion of the works for the left or right side of the station	2	117,075	234,150	2/2-1.1
5	Embankment		Completion of the works for the left or right side of the station	2	56,920	113,840	2/2-1.1
6	Subgrade		Completion of the works for the left or right side of the station	2	59,375	118,750	2/2-1.1
7	Geocomposite		Completion of the works for the left or right side of the station	2	60,695	121,390	2/2-1.1
8	Transition layer		Completion of the works for the left or right side of the station	2	143,910	287,820	2/2-1.1
9	Protection layer		Completion of the works for the left or right side of the station	2	173,740	347,480	2/2-1.1
10	Slope topsoling		Completion of the works for the left or right side of the station	2	1,922	3,844	2/2-1.1
11	Dewatering		Completion of the works for the left or right side of the station	2	75,412	150,824	2/2-1.1
12	Fence		Completion of the works for the left or right side of the station	2	5,082	10,164	2/2-1.1
B	Open track section Novi Sad-Rumenka (km 77+411.09 - km 83+278.60)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	149,064	149,064	2/2-1.2.1
2	Removal ballast		Completion of works	1	298,000	298,000	2/2-1.2.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	467,825	935,650	2/2-1.2.1
4	Excavation		Completion of the Works for the left or right side of the open track section	2	1,026,770	2,053,540	2/2-1.2.1
5	Embankment		Completion of the Works for the left or right side of the open track section	2	5,528,325	11,056,650	2/2-1.2.1

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	404,795	809,590	2/2-1.2.1
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	623,195	1,246,390	2/2-1.2.1
8	Transition layer		Completion of the Works for the left or right side of the open track section	2	969,630	1,939,260	2/2-1.2.1
9	Protection layer		Completion of the Works for the left or right side of the open track section	2	1,031,820	2,063,640	2/2-1.2.1
10	Slope topsoling		Completion of works	1	137,907	137,907	2/2-1.2.1
11	Dewatering		Completion of works	1	438,956	438,956	2/2-1.2.1
12	Fence		Completion of works	1	98,756	98,756	2/2-1.2.1
13	Retaining wall		Completion of works	1	32,371	32,371	2/2-1.2.1
C	Rumenka station (km 83+278.60 - km 84+651.09)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	19,555	19,555	2/2-1.3
2	Removal ballast		Completion of the Works for the left or right side of the station	2	16,985	33,970	2/2-1.3
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the station	2	97,170	194,340	2/2-1.3
4	Excavation		Completion of the works for the left or right side of the station	2	123,145	246,290	2/2-1.3
5	Embankment		Completion of the works for the left or right side of the station	2	595,600	1,191,200	2/2-1.3
6	Subgrade		Completion of the works for the left or right side of the station	2	73,280	146,560	2/2-1.3
7	Geocomposite		Completion of the works for the left or right side of the station	2	87,835	175,670	2/2-1.3
8	Transition layer		Completion of the works for the left or right side of the station	2	177,510	355,020	2/2-1.3
9	Protection layer		Completion of the works for the left or right side of the station	2	190,475	380,950	2/2-1.3
10	Slope topsoling		Completion of the Works for the left or right side of the station	2	7,464	14,928	2/2-1.3
11	Dewatering		Completion of the Works for the left or right side of the station	2	79,414	158,828	2/2-1.3
12	Fence		Completion of works	1	22,809	22,809	2/2-1.3
D	Open track section Rumenka-Kisač (km 84+651.09 - km 89+881.88)						

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	140,123	140,123	2/2-2.1
2	Removal ballast		Completion of works	1	67,994	67,994	2/2-2.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	284,790	569,580	2/2-2.1
4	Excavation		Completion of the Works for the left or right side of the open track section	2	224,640	449,280	2/2-2.1
5	Embankment		Completion of the Works for the left or right side of the open track section	2	1,059,045	2,118,090	2/2-2.1
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	155,890	311,780	2/2-2.1
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	176,840	353,680	2/2-2.1
8	Improvement layer		Completion of the Works for the left or right side of the open track section	2	552,585	1,105,170	2/2-2.1
9	Transition layer		Completion of the Works for the left or right side of the open track section	2	397,595	795,190	2/2-2.1
10	Protection layer		Completion of the Works for the left or right side of the open track section	2	402,110	804,220	2/2-2.1
11	Slope topsoling		Completion of the Works for the left or right side of the open track section	2	4,129	8,258	2/2-2.1
12	Dewatering		Completion of the Works for the left or right side of the open track section	2	60,832	121,664	2/2-2.1
13	Fence		Completion of the Works for the left or right side of the open track section	2	42,324	84,648	2/2-2.1
14	Service road		Completion of works	1	120,248	120,248	2/2-2.1
E	Kisač station (km 89+881.88 - km 91+174.14)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	41,562	41,562	2/2-2.2
2	Removal ballast		Completion of the works for the left or right side of the station	2	36,459	72,918	2/2-2.2
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	68,735	137,470	2/2-2.2
4	Excavation		Completion of the works for the left or right side of the station	2	99,280	198,560	2/2-2.2
5	Embankment		Completion of the works for the left or right side of the station	2	54,320	108,640	2/2-2.2

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Subgrade		Completion of the works for the left or right side of the station	2	61,355	122,710	2/2-2.2
7	Geocomposite		Completion of the works for the left or right side of the station	2	60,530	121,060	2/2-2.2
8	Improvement layer		Completion of the works for the left or right side of the station	2	196,460	392,920	2/2-2.2
9	Transition layer		Completion of the works for the left or right side of the station	2	153,040	306,080	2/2-2.2
10	Protection layer		Completion of the works for the left or right side of the station	2	166,745	333,490	2/2-2.2
11	Slope topsoling		Completion of works	1	1,045	1,045	2/2-2.2
12	Dewatering		Completion of works	1	90,499	90,499	2/2-2.2
13	Fence		Completion of works	1	19,729	19,729	2/2-2.2
14	Service road		Completion of works	1	9,086	9,086	2/2-2.2
F	Open track section Kisač-Stepanovićevo (km 91+174.14 - km 96+904.10)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of Works	1	139,789	139,789	2/2-2.3
2	Removal ballast		Completion of works	1	92,958	92,958	2/2-2.3
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	295,085	590,170	2/2-2.3
4	Excavation		Completion of the Works for the left or right side of the open track section	2	287,790	575,580	2/2-2.3
5	Embankment		Completion of the Works for the left or right side of the open track section	2	1,067,965	2,135,930	2/2-2.3
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	170,790	341,580	2/2-2.3
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	193,730	387,460	2/2-2.3
8	Improvement layer		Completion of the Works for the left or right side of the open track section	2	605,420	1,210,840	2/2-2.3
9	Transition layer		Completion of the Works for the left or right side of the open track section	2	435,595	871,190	2/2-2.3
10	Protection layer		Completion of the Works for the left or right side of the open track section	2	440,525	881,050	2/2-2.3
11	Slope topsoling		Completion of works	1	10,909	10,909	2/2-2.3
12	Dewatering		Completion of the Works for the left or right side of the open track section	2	118,030	236,060	2/2-2.3

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Fence		Completion of the Works for the left or right side of the open track section	2	46,311	92,622	2/2-2.3
14	Service road		Completion of works	1	91,016	91,016	2/2-2.3
G	Stepanovićevo station (km 96+904.10 - km 97+769.04)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	10,353	10,353	2/2-2.4
2	Removal ballast		Completion of the works for the left or right side of the station	2	17,025	34,050	2/2-2.4
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	59,010	118,020	2/2-2.4
4	Excavation		Completion of the works for the left or right side of the station	2	54,200	108,400	2/2-2.4
5	Embankment		Completion of the works for the left or right side of the station	2	13,670	27,340	2/2-2.4
6	Subgrade		Completion of the works for the left or right side of the station	2	35,385	70,770	2/2-2.4
7	Geocomposite		Completion of the works for the left or right side of the station	2	37,080	74,160	2/2-2.4
8	Improvement layer		Completion of the works for the left or right side of the station	2	120,060	240,120	2/2-2.4
9	Transition layer		Completion of the works for the left or right side of the station	2	92,890	185,780	2/2-2.4
10	Protection layer		Completion of the works for the left or right side of the station	2	99,310	198,620	2/2-2.4
11	Slope topsoling		Completion of works	1	833	833	2/2-2.4
12	Dewatering		Completion of works	1	37,713	37,713	2/2-2.4
13	Fence		Completion of works	1	13,418	13,418	2/2-2.4
14	Service road		Completion of works	1	12,796	12,796	2/2-2.4
H	Open track section Stepanovićevo - Zmajevo (km 97+769.04 - km 102+189.67)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	43,014	43,014	2/2-2.5
2	Removal ballast		Completion of works	1	72,386	72,386	2/2-2.5
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	229,340	458,680	2/2-2.5
4	Excavation		Completion of the Works for the left or right side of the open track section	2	327,625	655,250	2/2-2.5

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Embankment		Completion of the Works for the left or right side of the open track section	2	1,355,515	2,711,030	2/2-2.5
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	132,670	265,340	2/2-2.5
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	150,480	300,960	2/2-2.5
8	Geomembrane		Completion of the Works for the left or right side of the open track section	2	12,182	24,364	2/2-2.5
9	Improvement layer		Completion of the Works for the left or right side of the open track section	2	467,725	935,450	2/2-2.5
10	Transition layer		Completion of the Works for the left or right side of the open track section	2	336,540	673,080	2/2-2.5
11	Protection layer		Completion of the Works for the left or right side of the open track section	2	342,305	684,610	2/2-2.5
12	Slope topsoling		Completion of works	1	6,823	6,823	2/2-2.5
13	Dewatering		Completion of the Works for the left or right side of the open track section	2	31,182	62,364	2/2-2.5
14	Fence		Completion of the Works for the left or right side of the open track section	2	42,790	85,580	2/2-2.5
15	Service road		Completion of works	1	93,156	93,156	2/2-2.5
I	Zmajevo station (km 102+189.67 - km 103+382.06)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of the Works for the left or right side of the station	2	28,217	56,434	2/2-2.6
2	Removal ballast		Completion of the works for the left or right side of the station	2	48,440	96,880	2/2-2.6
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	61,750	123,500	2/2-2.6
4	Excavation		Completion of the works for the left or right side of the station	2	108,165	216,330	2/2-2.6
5	Embankment		Completion of the works for the left or right side of the station	2	6,270	12,540	2/2-2.6
6	Subgrade		Completion of the works for the left or right side of the station	2	53,230	106,460	2/2-2.6
7	Geocomposite		Completion of the works for the left or right side of the station	2	64,010	128,020	2/2-2.6
8	Improvement layer		Completion of the works for the left or right side of the station	2	180,135	360,270	2/2-2.6

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	Transition layer		Completion of the works for the left or right side of the station	2	140,795	281,590	2/2-2.6
10	Protection layer		Completion of the works for the left or right side of the station	2	149,965	299,930	2/2-2.6
11	Slope topsoling		Completion of works	1	1,030	1,030	2/2-2.6
12	Dewatering		Completion of the Works for the left or right side of the station	2	44,141	88,282	2/2-2.6
13	Fence		Completion of works	1	18,161	18,161	2/2-2.6
14	Retaining wall		Completion of works	1	23,395	23,395	2/2-2.6
J	Open track section Zmajevo-Vrbas (km 103+382.06 - km 112+861.00)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	45,529	45,529	2/2-2.7
2	Removal ballast		Completion of works	1	170,118	170,118	2/2-2.7
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	582,190	1,164,380	2/2-2.7
4	Excavation		Completion of the Works for the left or right side of the open track section	2	425,565	851,130	2/2-2.7
5	Embankment		Completion of the Works for the left or right side of the open track section	2	3,631,380	7,262,760	2/2-2.7
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	288,785	577,570	2/2-2.7
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	252,900	505,800	2/2-2.7
8	Improvement layer		Completion of the Works for the left or right side of the open track section	2	791,355	1,582,710	2/2-2.7
9	Transition layer		Completion of the Works for the left or right side of the open track section	2	736,620	1,473,240	2/2-2.7
10	Protection layer		Completion of the Works for the left or right side of the open track section	2	745,130	1,490,260	2/2-2.7
11	Slope topsoling		Completion of works	1	12,840	12,840	2/2-2.7
12	Dewatering		Completion of the Works for the left or right side of the open track section	2	43,930	87,860	2/2-2.7
13	Fence		Completion of the Works for the left or right side of the open track section	2	77,995	155,990	2/2-2.7
14	Service road		Completion of works	1	148,219	148,219	2/2-2.7
K	Vrbas station (km 112+861.00 - km 115+001.90)						

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	162,424	162,424	2/2-3.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	311,095	622,190	2/2-3.1
4	Excavation		Completion of the works for the left or right side of the station	2	20,090	40,180	2/2-3.1
5	Embankment		Completion of the works for the left or right side of the station	2	4,836,970	9,673,940	2/2-3.1
6	Subgrade		Completion of the works for the left or right side of the station	2	112,180	224,360	2/2-3.1
7	Geocomposite		Completion of the works for the left or right side of the station	2	390,010	780,020	2/2-3.1
9	Transition layer		Completion of the works for the left or right side of the station	2	261,450	522,900	2/2-3.1
10	Protection layer		Completion of the works for the left or right side of the station	2	281,305	562,610	2/2-3.1
11	Slope topsoling		Completion of the Works for the left or right side of the station	2	16,258	32,516	2/2-3.1
12	Dewatering		Completion of the Works for the left or right side of the station	2	95,695	191,390	2/2-3.1
13	Fence		Completion of works	1	35,153	35,153	2/2-3.1
L	Open track section Vrbas-Vrbas existing st.						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of the Works	1	50,860	50,860	2/2-3.2
2	Removal ballast		Completion of works	1	58,712	58,712	2/2-3.2
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of works	1	243,540	243,540	2/2-3.2
4	Excavation		Completion of works	1	56,300	56,300	2/2-3.2
5	Embankment		Completion of works	1	1,772,580	1,772,580	2/2-3.2
6	Subgrade		Completion of works	1	87,060	87,060	2/2-3.2
7	Geocomposite		Completion of works	1	97,530	97,530	2/2-3.2
8	Geogrid		Completion of works	1	66,580	66,580	2/2-3.2
9	Transition layer		Completion of works	1	35,460	35,460	2/2-3.2
10	Protection layer		Completion of works	1	229,750	229,750	2/2-3.2
11	Slope topsoling		Completion of works	1	14,046	14,046	2/2-3.2
12	Dewatering		Completion of the Works for the left or right side of the open track section	2	25,314	50,628	2/2-3.2

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Fence		Completion of works	1	6,522	6,522	2/2-3.2
M	Open track section Vrbas-Lovćenac (km 115+001.90 - km 128+849.48)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of the Works	1	233,726	233,726	2/2-4.1
2	Removal ballast		Completion of works	1	107,172	107,172	2/2-4.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	871,695	1,743,390	2/2-4.1
4	Excavation		Completion of the Works for the left or right side of the open track section	2	333,560	667,120	2/2-4.1
5	Embankment		Completion of the Works for the left or right side of the open track section	2	6,331,450	12,662,900	2/2-4.1
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	376,830	753,660	2/2-4.1
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	218,395	436,790	2/2-4.1
8	Improvement layer		Completion of the Works for the left or right side of the open track section	2	604,490	1,208,980	2/2-4.1
9	Transition layer		Completion of the Works for the left or right side of the open track section	2	943,150	1,886,300	2/2-4.1
10	Protection layer		Completion of the Works for the left or right side of the open track section	2	953,790	1,907,580	2/2-4.1
11	Slope topsoling		Completion of the Works for the left or right side of the open track section	2	12,316	24,632	2/2-4.1
12	Dewatering		Completion of the Works for the left or right side of the open track section	2	65,404	130,808	2/2-4.1
13	Fence		Completion of the Works for the left or right side of the open track section	2	100,336	200,672	2/2-4.1
14	Service road		Completion of works	1	287,066	287,066	2/2-4.1
N	Lovćenac station (km128+849.48 - km130+141.85)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	10,871	10,871	2/2-4.2
2	Removal ballast		Completion of the Works for the left or right side of the station	2	8,028	16,056	2/2-4.2
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	95,695	191,390	2/2-4.2
4	Excavation		Completion of the works for the left or right side of the station	2	82,705	165,410	2/2-4.2

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Embankment		Completion of the works for the left or right side of the station	2	588,640	1,177,280	2/2-4.2
6	Subgrade		Completion of the works for the left or right side of the station	2	60,190	120,380	2/2-4.2
7	Geocomposite		Completion of the works for the left or right side of the station	2	63,395	126,790	2/2-4.2
8	Improvement layer		Completion of the works for the left or right side of the station	2	205,885	411,770	2/2-4.2
9	Transition layer		Completion of the works for the left or right side of the station	2	156,200	312,400	2/2-4.2
10	Protection layer		Completion of the works for the left or right side of the station	2	165,910	331,820	2/2-4.2
11	Slope topsoling		Completion of works	1	1,518	1,518	2/2-4.2
12	Dewatering		Completion of the Works for the left or right side of the station	2	36,669	73,338	2/2-4.2
13	Fence		Completion of the Works for the left or right side of the station	2	10,172	20,344	2/2-4.2
14	Service road		Completion of works	1	17,469	17,469	2/2-4.2
O	Open track section Lovćenac-Bačka Topola (km 130+141.85 - km 142+691.40)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of the Works	1	114,392	114,392	2/2-4.3
2	Removal ballast		Completion of works	1	157,242	157,242	2/2-4.3
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	593,820	1,187,640	2/2-4.3
4	Excavation		Completion of the Works for the left or right side of the open track section	2	1,244,740	2,489,480	2/2-4.3
5	Embankment		Completion of the Works for the left or right side of the open track section	2	3,543,263	7,086,526	2/2-4.3
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	360,340	720,680	2/2-4.3
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	407,335	814,670	2/2-4.3
8	Geomat		Completion of the Works for the left or right side of the open track section	2	59,628	119,256	2/2-4.3
9	Improvement layer		Completion of the Works for the left or right side of the open track section	2	1,253,930	2,507,860	2/2-4.3
10	Transition layer		Completion of the Works for the left or right side of the open track section	2	906,420	1,812,840	2/2-4.3

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Protection layer		Completion of the Works for the left or right side of the open track section	2	907,380	1,814,760	2/2-4.3
12	Slope topsoling		Completion of works	1	26,486	26,486	2/2-4.3
13	Dewatering		Completion of the Works for the left or right side of the open track section	2	163,701	327,402	2/2-4.3
14	Fence		Completion of the Works for the left or right side of the open track section	2	97,332	194,664	2/2-4.3
15	Service road		Completion of works	1	287,114	287,114	2/2-4.3
P	Bačka Topola station (km 142+691.40 - km 144+269.38)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	71,160	71,160	2/2-4.4
2	Removal ballast		Completion of the works for the left or right side of the station	2	41,370	82,740	2/2-4.4
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	90,755	181,510	2/2-4.4
4	Excavation		Completion of the works for the left or right side of the station	2	210,695	421,390	2/2-4.4
5	Embankment		Completion of the works for the left or right side of the station	2	26,440	52,880	2/2-4.4
6	Subgrade		Completion of the works for the left or right side of the station	2	84,855	169,710	2/2-4.4
7	Geocomposite		Completion of the works for the left or right side of the station	2	87,110	174,220	2/2-4.4
8	Improvement layer		Completion of the works for the left or right side of the station	2	286,570	573,140	2/2-4.4
9	Transition layer		Completion of the works for the left or right side of the station	2	229,390	458,780	2/2-4.4
10	Protection layer		Completion of the works for the left or right side of the station	2	251,075	502,150	2/2-4.4
11	Slope topsoling		Completion of works	1	921	921	2/2-4.4
12	Dewatering		Completion of the Works for the left or right side of the station	2	71,160	142,320	2/2-4.4
13	Fence		Completion of works	1	14,658	14,658	2/2-4.4
14	Service road		Completion of works	1	8,034	8,034	2/2-4.4
Q	Open track section Bačka Topola-Žednik (km 144+269.38 - km 156+211.82)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of the Works	1	88,688	88,688	2/2-4.5

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Removal ballast		Completion of works	1	179,310	179,310	2/2-4.5
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	626,000	1,252,000	2/2-4.5
4	Excavation		Completion of the Works for the left or right side of the open track section	2	614,420	1,228,840	2/2-4.5
5	Embankment		Completion of the Works for the left or right side of the open track section	2	5,232,350	10,464,700	2/2-4.5
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	361,830	723,660	2/2-4.5
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	409,850	819,700	2/2-4.5
8	Improvement layer		Completion of the Works for the left or right side of the open track section	2	1,281,650	2,563,300	2/2-4.5
9	Transition layer		Completion of the Works for the left or right side of the open track section	2	923,430	1,846,860	2/2-4.5
10	Protection layer		Completion of the Works for the left or right side of the open track section	2	935,090	1,870,180	2/2-4.5
11	Slope topsoling		Completion of works	1	18,182	18,182	2/2-4.5
12	Dewatering		Completion of the Works for the left or right side of the open track section	2	53,636	107,272	2/2-4.5
13	Fence		Completion of the Works for the left or right side of the open track section	2	154,550	309,100	2/2-4.5
14	Service road		Completion of works	1	262,365	262,365	2/2-4.5
R	Žednik station (km 156+211.82 - km 157+500.66)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	40,790	40,790	2/2-4.6
2	Removal ballast		Completion of the works for the left or right side of the station	2	63,841	127,682	2/2-4.6
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	70,325	140,650	2/2-4.6
4	Excavation		Completion of the works for the left or right side of the station	2	159,970	319,940	2/2-4.6
5	Embankment		Completion of the works for the left or right side of the station	2	1,222	2,444	2/2-4.6
6	Subgrade		Completion of the works for the left or right side of the station	2	66,285	132,570	2/2-4.6
7	Geocomposite		Completion of the works for the left or right side of the station	2	67,120	134,240	2/2-4.6

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	Improvement layer		Completion of the works for the left or right side of the station	2	221,705	443,410	2/2-4.6
9	Transition layer		Completion of the works for the left or right side of the station	2	177,095	354,190	2/2-4.6
10	Protection layer		Completion of the works for the left or right side of the station	2	194,420	388,840	2/2-4.6
11	Slope topsoling		Completion of works	1	639	639	2/2-4.6
12	Dewatering		Completion of the Works for the left or right side of the station	2	49,726	99,452	2/2-4.6
13	Fence		Completion of works	1	32,997	32,997	2/2-4.6
14	Service road		Completion of works	1	9,877	9,877	2/2-4.6
S	Open track section Žednik-Naumovićevo (km 157+500.66 - km 165+665.64)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of the Works	1	54,349	54,349	2/2-4.7
2	Removal ballast		Completion of works	1	107,624	107,624	2/2-4.7
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	413,890	827,780	2/2-4.7
4	Excavation		Completion of the Works for the left or right side of the open track section	2	411,720	823,440	2/2-4.7
5	Embankment		Completion of the Works for the left or right side of the open track section	2	2,410,625	4,821,250	2/2-4.7
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	247,385	494,770	2/2-4.7
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	278,770	557,540	2/2-4.7
8	Improvement layer		Completion of the Works for the left or right side of the open track section	2	859,970	1,719,940	2/2-4.7
9	Transition layer		Completion of the Works for the left or right side of the open track section	2	595,210	1,190,420	2/2-4.7
10	Protection layer		Completion of the Works for the left or right side of the open track section	2	606,670	1,213,340	2/2-4.7
11	Slope topsoling		Completion of works	1	12,580	12,580	2/2-4.7
12	Dewatering		Completion of the Works for the left or right side of the open track section	2	90,002	180,004	2/2-4.7
13	Fence		Completion of the Works for the left or right side of the open track section	2	104,249	208,498	2/2-4.7
14	Service road		Completion of works	1	176,511	176,511	2/2-4.7
T	Naumovićevo station (km 165+665.64 - km 167+585.96)						

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	21,200	21,200	2/2-5.1
2	Removal ballast		Completion of the Works for the left or right side of the station	2	57,363	114,726	2/2-5.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	94,970	189,940	2/2-5.1
4	Excavation		Completion of the works for the left or right side of the station	2	241,495	482,990	2/2-5.1
5	Embankment		Completion of the works for the left or right side of the station	2	433,125	866,250	2/2-5.1
6	Subgrade		Completion of the works for the left or right side of the station	2	83,835	167,670	2/2-5.1
7	Geocomposite		Completion of the works for the left or right side of the station	2	92,690	185,380	2/2-5.1
9	Transition layer		Completion of the works for the left or right side of the station	2	201,125	402,250	2/2-5.1
10	Protection layer		Completion of the works for the left or right side of the station	2	226,880	453,760	2/2-5.1
11	Slope topsoling		Completion of works	1	4,309	4,309	2/2-5.1
12	Dewatering		Completion of the Works for the left or right side of the station	2	82,526	165,052	2/2-5.1
13	Fence		Completion of works	1	30,789	30,789	2/2-5.1
U	Open track section Naumovićevo-Subotica (km 167+585.96 - km 174+168.84)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of the Works	1	157,856	157,856	2/2-5.2
2	Removal ballast		Completion of works	1	21,252	21,252	2/2-5.2
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	260,810	521,620	2/2-5.2
4	Excavation		Completion of the Works for the left or right side of the open track section	2	185,030	370,060	2/2-5.2
5	Embankment		Completion of the Works for the left or right side of the open track section	2	1,722,475	3,444,950	2/2-5.2
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	210,090	420,180	2/2-5.2
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	109,240	218,480	2/2-5.2

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	Transition layer		Completion of the Works for the left or right side of the open track section	2	502,500	1,005,000	2/2-5.2
9	Protection layer		Completion of the Works for the left or right side of the open track section	2	534,610	1,069,220	2/2-5.2
10	Slope topsoling		Completion of works	1	27,922	27,922	2/2-5.2
11	Dewatering		Completion of the Works for the left or right side of the open track section	2	128,156	256,312	2/2-5.2
12	Fence		Completion of the Works for the left or right side of the open track section	2	50,812	101,624	2/2-5.2
V	Subotica junction railway station (km 174+168.84 - km 177+276.75)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	35,416	35,416	2/2-5.3
2	Removal ballast		Completion of the works for the left or right side of the station	2	232,393	464,786	2/2-5.3
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for the left or right side of the station	2	313,220	626,440	2/2-5.3
4	Excavation		Completion of the works for the left or right side of the station	2	807,970	1,615,940	2/2-5.3
5	Embankment		Completion of the works for the left or right side of the station	2	1,293,530	2,587,060	2/2-5.3
6	Subgrade		Completion of the works for the left or right side of the station	2	231,410	462,820	2/2-5.3
7	Geocomposite		Completion of the works for the left or right side of the station	2	310,350	620,700	2/2-5.3
8	Transition layer		Completion of the works for the left or right side of the station	2	567,810	1,135,620	2/2-5.3
9	Protection layer		Completion of the works for the left or right side of the station	2	827,140	1,654,280	2/2-5.3
10	Slope topsoling		Completion of works	1	3,998	3,998	2/2-5.3
11	Dewatering		Completion of the Works for the left or right side of the station	2	212,633	425,266	2/2-5.3
12	Fence		Completion of works	1	50,941	50,941	2/2-5.3
13	Retaining wall		Completion of works	1	875,936	875,936	2/2-5.3
W	Open track section Subotica- state border (km 177+276.75 - km 184+635.07)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of the Works	1	70,489	70,489	2/2-5.4
2	Removal ballast		Completion of works	1	84,750	84,750	2/2-5.4

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the open track section	2	117,890	235,780	2/2-5.4
4	Excavation		Completion of the Works for the left or right side of the open track section	2	160,590	321,180	2/2-5.4
5	Embankment		Completion of the Works for the left or right side of the open track section	2	1,727,275	3,454,550	2/2-5.4
6	Subgrade		Completion of the Works for the left or right side of the open track section	2	209,020	418,040	2/2-5.4
7	Geocomposite		Completion of the Works for the left or right side of the open track section	2	123,725	247,450	2/2-5.4
8	Transition layer		Completion of the Works for the left or right side of the open track section	2	493,930	987,860	2/2-5.4
9	Protection layer		Completion of the Works for the left or right side of the open track section	2	517,990	1,035,980	2/2-5.4
10	Slope topsoling		Completion of works	1	26,044	26,044	2/2-5.4
11	Dewatering		Completion of the Works for the left or right side of the open track section	2	53,515	107,030	2/2-5.4
12	Fence		Completion of the Works for the left or right side of the open track section	2	59,638	119,276	2/2-5.4
X	Design of supporting structures-Wall1 (km 77+000.00- km 77+325.00)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	5,601	5,601	2/4
2	Excavation		Completion of works	1	22,255	22,255	2/4
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of works	1	1,352	1,352	2/4
4	Embankment		Completion of works	1	94,721	94,721	2/4
5	Concrete		Completion of works	1	213,562	213,562	2/4
6	Reinforcement		Completion of works	1	28,151	28,151	2/4
7	Geosynthetics		Completion of works	1	80,390	80,390	2/4
8	Dewatering		Completion of works	1	31,752	31,752	2/4
Y	Design of supporting structures-Wall2 (km 0+783.35 - km 0+915.52)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	2,240	2,240	2/4
2	Excavation		Completion of works	1	10,146	10,146	2/4
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of works	1	1,747	1,747	2/4
4	Embankment		Completion of works	1	199,800	199,800	2/4
5	Concrete		Completion of works	1	144,962	144,962	2/4

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Reinforcement		Completion of works	1	14,625	14,625	2/4
7	Geosynthetics		Completion of works	1	138,771	138,771	2/4
8	Dewatering		Completion of works	1	19,824	19,824	2/4
Z	Relocation and protection of telecommunications infrastructure – part 1. routing of cable ducts						
1	Station "Novi Sad"	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	120,384	120,384	2/10
2	Stopping place "Tps"	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	20,443	20,443	2/10
3	Branching off point "Sajlovo"	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	6,776	6,776	2/10
4	Station " Rumenka "	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	3,884	3,884	2/10
5	Station "Kisač"	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	50,352	50,352	2/10
6	Station " Stepanovićevo "	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	55,577	55,577	2/10
7	Station " Zmajevo"	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	52,914	52,914	2/10
8	Telecommunication object on the km 108+100.00	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	1,072	1,072	2/10
9	Station " Vrbas nova "	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	53,515	53,515	2/10
10	Station "Vrbas "	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	26,564	26,564	2/10
11	Telecommunication object on the km 120+600.00	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	965	965	2/10

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Station "Lovcenac "	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	54,280	54,280	2/10
13	Telecommunication object on the km 135+520.00	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	1,355	1,355	2/10
14	Station "Bačka topola"	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	71,502	71,502	2/10
15	Telecommunication object on the km 152+250.00	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	696	696	2/10
16	Station "Zednik "	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	41,227	41,227	2/10
17	Telecommunication object on the km 162+320.00	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	698	698	2/10
18	Station "Naumovićevo "	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	54,003	54,003	2/10
19	Telecommunication object on the km 171÷680.00	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	1,278	1,278	2/10
20	Station "Subotica ""	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	84,234	84,234	2/10
21	Telecommunication object on the km 184+370	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	1,309	1,309	2/10
AA	Relocation and protection of telecommunications infrastructure - part 2. TK manholes						
	Manholes		Completion of each manhole	292	3,841	1,121,572	2/2-11
AB	Cable routing for track-side telecommunication cables						
1	Cable routing for track-side telecommunication cables-procurement	Inclding procurement and delivery of material, cable route works	Completion of the works	1	9,197,600	9,197,600	2/2-12
2	Cable routing for track-side telecommunication cables-works	Inclding procurement and delivery of material, cable route works	Completion of the works	1	1,623,000	1,623,000	2/2-12

2. Substructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
AC	Cable routing for other operator's telecommunication cables						
	Cable routing for other operator's telecommunication cables	Including procurement of materials, earth works, constrction material, work on TC cable conduit route	Completion of the works	1	13,367	13,367	2/2-13
	Summary(USD)					**209,735,688**	

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Novi Sad station (km 76+224.17 - km 77+411.09)						
1	Procurement						
1-1	Rail						
1-1.1	Rail type 60E1,		Completion of the Procument for left or right side of the station	2	404,250	808,500	2/2-1.1
1-1.2	Rail type 49E1		Completion of the Procument for left or right side of the station	2	147,000	294,000	2/2-1.1
1-1.3	Transitional rails 49E1/60E1		Completion of the Procument for left or right side of the station	2	5,485	10,970	2/2-1.1
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail,		Completion of the Procument for left or right side of the station	2	88,810	177,620	2/2-1.1
1-2.2	Elastic track fastenings for concrete sleepers and 49E1 rail		Completion of the Procument for left or right side of the station	2	30,445	60,890	2/2-1.1
1-2.3	Fastenings for running rail and check rail,type 60E1		Completion of the Procument for left or right side of the station	2	9,015	18,030	2/2-1.1
1-3	Sleeper						
1-3.1	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	195,005	390,010	2/2-1.1
1-3.2	Concrete sleepers on bridges, 2.60m long		Completion of the Procument for left or right side of the station	2	10,190	20,380	2/2-1.1
1-3.3	Concrete sleepers, 2.40m long		Completion of the Procument for left or right side of the station	2	94,480	188,960	2/2-1.1
1-4	Switches						
1-4.1	type 60E1-1200-1:18.5		Completion of procurement for each one set of switches	4	412,995	1,651,980	2/2-1.1
1-4.2	type 60E1-300-6°		Completion of procurement for each one set of switches	13	165,256	2,148,328	2/2-1.1
1-4.3	type 49E1-300-6°		Completion of procurement for each one set of switches	4	132,159	528,636	2/2-1.1
1-4.4	type 60E1-200-6°		Completion of procurement for each one set of switches	2	142,307	284,614	2/2-1.1
1-4.5	type 49E1-200-6°		Completion of procurement for each one set of switches	2	119,346	238,692	2/2-1.1
1-5	Ballast		Completion of the procument	1	711,900	711,900	2/2-1.1
2	Handling						

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2-1	Rail		Completion of the works	1	18,038	18,038	2/2-1.1
2-2	Fastening		Completion of the works	1	2,212	2,212	2/2-1.1
2-3	Sleeper		Completion of the works	1	36,498	36,498	2/2-1.1
2-4	Switches		Completion of the works	1	18,850	18,850	2/2-1.1
3	Works						2/2-1.1
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	2	151,342	302,684	2/2-1.1
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	172,392	344,784	2/2-1.1
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	25	18,046	451,150	2/2-1.1
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	203,575	407,150	2/2-1.1
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	12,443	24,886	2/2-1.1
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	134,752	269,504	2/2-1.1
4	Equipment		Completion of the works on left or right side of the station	2	36,685	73,370	2/2-1.1
B	Open track section Novi Sad-Rumenka (km 77+411.09 - km 83+278.60)						
1	Procurement						
1-1	Rail						
1-1.1	Rail type 60E1,		Completion of the procument for left or right side of the open track section	4	916,563	3,666,250	2/2-1.2
1-1.2	Rail type 49E1		Completion of the procument for left or right side of the open track section	4	335,528	1,342,110	2/2-1.2
1-1.3	Transitional rails 49E1/60E1		Completion of the procument for left or right side of the open track section	4	1,960	7,840	2/2-1.2
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail,		Completion of the procument for left or right side of the open track section	4	205,660	822,639	2/2-1.2
1-2.2	Elastic track fastenings for concrete sleepers and 49E1 rail		Completion of the procument for left or right side of the open track section	4	68,719	274,875	2/2-1.2
1-2.3	Fastenings for running rail and check rail,type 60E1		Completion of the procument for left or right side of the open track section	4	5,871	23,484	2/2-1.2
1-2.4	Fastenings for running rail and check rail,type 49E1		Completion of the procument for left or right side of the open track section	4	1,900	7,602	2/2-1.2
1-3	Sleeper						
1-3.1	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	4	451,561	1,806,244	2/2-1.2
1-3.2	Concrete sleepers on bridges, 2.60m long		Completion of the procument for left or right side of the open track section	4	6,637	26,548	2/2-1.2

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1-3.3	Concrete sleepers, 2.40m long		Completion of the procument for left or right side of the open track section	4	213,267	853,069	2/2-1.2
1-3.4	Concrete sleepers on bridges, 2.40m long		Completion of the procument for left or right side of the open track section	4	3,047	12,189	2/2-1.2
1-4	Switches						
1-4.1	type 60E1-300-6°		Completion of procurement for each one set of switches	13	165,254	2,148,305	2/2-1.2
1-4.2	type 49E1-300-6°		Completion of procurement for each one set of switches	6	132,159	792,952	2/2-1.2
1-5	Ballast		Completion of the procument	1	3,371,040	3,371,040	2/2-1.2
2	Handling						
2-1	Rail		Completion of the works	1	81,330	81,330	2/2-1.2
2-2	Fastening		Completion of the works	1	9,802	9,802	2/2-1.2
2-3	Sleeper		Completion of the works	1	164,490	164,490	2/2-1.2
2-4	Switches		Completion of the works	1	13,300	13,300	2/2-1.2
3	Works						
3-1	Dismantling existing track		Completion of the works	1	447,540	447,540	2/2-1.2
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	4	390,485	1,561,940	2/2-1.2
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	19	17,368	329,992	2/2-1.2
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	4	343,695	1,374,780	2/2-1.2
3-5	Grinding of rails		Completion of the procument for left or right side of the open track section	4	35,441	141,762	2/2-1.2
3-6	Welding and stress relief		Completion of the procument for left or right side of the open track section	4	155,801	623,205	2/2-1.2
4	Equipment		Completion of the procument for left or right side of the open track section	4	37,267	149,067	2/2-1.2
C	Rumenka station (km 83+278.60 - km 84+651.09)						
1	Procurement						
1-1	Rail type 60E1		Completion of the Procument for left or right side of the station	2	483,870	967,740	2/2-1.3
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the Procument for left or right side of the station	2	109,700	219,400	2/2-1.3
1-3	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	240,860	481,720	2/2-1.3
1-4	Switches						
1-4.1	type 60E1-1200-1:18.5		Completion of procurement for each one set of switches	3	412,999	1,238,996	2/2-1.3

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1-4.2	type 60E1-760-1:14		Completion of procurement for each one set of switches	8	368,199	2,945,591	2/2-1.3
1-5	Ballast		Completion of the procument	1	664,860	664,860	2/2-1.3
2	Handling						
2-1	Rail		Completion of the works	1	14,930	14,930	2/2-1.3
2-2	Fastening		Completion of the works	1	1,650	1,650	2/2-1.3
2-3	Sleeper		Completion of the works	1	28,274	28,274	2/2-1.3
2-4	Switches		Completion of the works	1	10,868	10,868	2/2-1.3
3	Works						
3-1	Dismantling existing track of the station		Completion of the works	1	55,364	55,364	2/2-1.3
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	140,110	280,220	2/2-1.3
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	11	19,172	210,892	2/2-1.3
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	156,365	312,730	2/2-1.3
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	14,030	28,060	2/2-1.3
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	85,378	170,756	2/2-1.3
4	Equipment		Completion of the works on left or right side of the station	2	11,560	23,120	2/2-1.3
D	Open track section Rumenka-Kisač (km 84+651.09 - km 89+881.88)						
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	1,102,300	2,204,600	2/2-2.1
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	250,290	500,580	2/2-2.1
1-3	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	549,555	1,099,110	2/2-2.1
1-4	Ballast		Completion of the procument	1	1,045,630	1,045,630	2/2-2.1
2	Handling						
2-1	Rail		Completion of the works	1	34,012	34,012	2/2-2.1
2-2	Fastening		Completion of the works	1	3,790	3,790	2/2-2.1
2-3	Sleeper		Completion of the works	1	64,512	64,512	2/2-2.1
3	Works						
3-1	Dismantling existing track		Completion of the works	1	151,736	151,736	2/2-2.1
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	319,292	638,584	2/2-2.1

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	271,960	543,920	2/2-2.1
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	63,806	127,612	2/2-2.1
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	107,688	215,375	2/2-2.1
4	Equipment		Completion of the procument for left or right side of the open track section	2	15,191	30,382	2/2-2.1
E	Kisač station (km 89+881.88 - km 91+174.14)						
1	Procurement						
1-1	Rail type 60E1		Completion of the Procument for left or right side of the station	2	419,485	838,970	2/2-2.2
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the Procument for left or right side of the station	2	95,255	190,510	2/2-2.2
1-3	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	209,155	418,310	2/2-2.2
1-4	Switches,type 60E1-760-1:14		Completion of procurement for each one set of switches	10	368,200	3,682,000	2/2-2.2
1-5	Ballast		Completion of the procument	1	462,630	462,630	2/2-2.2
2	Handling						
2-1	Rail		Completion of the works	1	12,944	12,944	2/2-2.2
2-2	Fastening		Completion of the works	1	1,440	1,440	2/2-2.2
2-3	Sleeper		Completion of the works	1	24,552	24,552	2/2-2.2
2-4	Switches		Completion of the works	1	9,390	9,390	2/2-2.2
3	Works						
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	2	60,748	121,496	2/2-2.2
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	121,518	243,036	2/2-2.2
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	2	89,995	179,990	2/2-2.2
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	135,805	271,610	2/2-2.2
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	15,798	31,596	2/2-2.2
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	75,362	150,724	2/2-2.2
4	Equipment		Completion of the works on left or right side of the station	2	15,464	30,928	2/2-2.2
F	Open track section Kisač-Stepanovićevo (km 91+174.14 - km 96+904.10)						

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	1,207,500	2,415,000	2/2-2.3
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	274,175	548,350	2/2-2.3
1-3	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	602,000	1,204,000	2/2-2.3
1-4	Ballast		Completion of the procument	1	1,111,740	1,111,740	2/2-2.3
2	Handling						
2-1	Rail		Completion of the works	1	37,258	37,258	2/2-2.3
2-2	Fastening		Completion of the works	1	4,154	4,154	2/2-2.3
2-3	Sleeper		Completion of the works	1	70,668	70,668	2/2-2.3
3	Works						
3-1	Dismantling existing track		Completion of the works	1	166,360	166,360	2/2-2.3
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	349,816	699,632	2/2-2.3
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	297,960	595,920	2/2-2.3
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	69,906	139,812	2/2-2.3
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	117,550	235,100	2/2-2.3
4	Equipment		Completion of the procument for left or right side of the open track section	2	15,532	31,064	2/2-2.3
G	Stepanovićevo station (km 96+904.10 - km 97+769.04)						
1	Procurement						
1-1	Rail type 60E1		Completion of the Procument for left or right side of the station	2	47,878	478,780	2/2-2.4
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the Procument for left or right side of the station	2	54,375	108,750	2/2-2.4
1-3	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	119,390	238,780	2/2-2.4
1-4	Switches,type 60E1-760-1:14		Completion of procurement for each one set of switches	10	368,200	3,682,000	2/2-2.4
1-5	Ballast		Completion of the procument	1	297,230	297,230	2/2-2.4
2	Handling						
2-1	Rail		Completion of the works	1	7,386	7,386	2/2-2.4
2-2	Fastening		Completion of the works	1	822	822	2/2-2.4
2-3	Sleeper		Completion of the works	1	14,014	14,014	2/2-2.4
2-4	Switches		Completion of the works	1	9,390	9,390	2/2-2.4

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Works						
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	2	27,412	54,824	2/2-2.4
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	69,352	138,704	2/2-2.4
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	10	17,999	179,990	2/2-2.4
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	91,370	182,740	2/2-2.4
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	10,552	21,104	2/2-2.4
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	57,806	115,612	2/2-2.4
4	Equipment		Completion of the works on left or right side of the station	2	14,451	28,902	2/2-2.4
H	Open track section Stepanovićevo-Zmajevo (km 97+769.04 - km 102+189.67)						
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	940,590	1,881,180	2/2-2.5
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	209,492	418,983	2/2-2.5
1-2.2	Fastenings for running rail and check rail,type 60E1		Completion of the procument for left or right side of the open track section	2	2,038	4,077	2/2-2.5
1-3	Sleeper						
1-3.1	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	459,976	919,953	2/2-2.5
1-3.2	Concrete sleepers on bridges, 2.60m long		Completion of the procument for left or right side of the open track section	2	4,609	9,217	2/2-2.5
1-4	Ballast		Completion of the procument	1	866,580	866,580	2/2-2.5
2	Handling						
2-1	Rail		Completion of the works	1	29,022	29,022	2/2-2.5
2-2	Fastening		Completion of the works	1	3,204	3,204	2/2-2.5
2-3	Sleeper		Completion of the works	1	54,522	54,522	2/2-2.5
3	Works						
3-1	Dismantling existing track		Completion of the works	1	128,206	128,206	2/2-2.5
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	272,936	545,872	2/2-2.5
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	229,840	459,680	2/2-2.5

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	53,923	107,846	2/2-2.5
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	91,100	182,200	2/2-2.5
4	Equipment		Completion of the procument for left or right side of the open track section	2	12,774	25,548	2/2-2.5
I	Zmajevo station (km 102+189.67 - km 103+382.06)						
1	Procurement						
1-1	Rail type 60E1		Completion of the Procument for left or right side of the station	2	375,385	750,770	2/2-2.6
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the Procument for left or right side of the station	2	85,235	170,470	2/2-2.6
1-3	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	187,155	374,310	2/2-2.6
1-4	Switches						
1-4.1	type 60E1-760-1:14		Completion of procurement for each one set of switches	10	368,199	3,681,993	2/2-2.6
1-4.2	type 60E1-200-6°		Completion of procurement for each one set of switches	2	142,310	284,619	2/2-2.6
1-5	Ballast		Completion of the procument	1	452,080	452,080	2/2-2.6
2	Handling						
2-1	Rail		Completion of the works	1	11,582	11,582	2/2-2.6
2-2	Fastening		Completion of the works	1	1,290	1,290	2/2-2.6
2-3	Sleeper		Completion of the works	1	19,970	19,970	2/2-2.6
2-4	Switches		Completion of the works	1	10,596	10,596	2/2-2.6
3	Works						
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	2	67,240	134,480	2/2-2.6
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	108,668	217,336	2/2-2.6
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	12	17,665	211,980	2/2-2.6
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	129,560	259,120	2/2-2.6
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	14,578	29,156	2/2-2.6
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	76,552	153,104	2/2-2.6
4	Equipment		Completion of the works on left or right side of the station	2	16,011	32,022	2/2-2.6

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
J	Open track section Zmajevo-Vrbas (km 103+382.06 - km 112+861.00)						
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	2,005,585	4,011,170	2/2-2.7
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	456,385	912,770	2/2-2.7
1-3	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	1,002,060	2,004,120	2/2-2.7
1-4	Ballast		Completion of the procument	1	1,889,540	1,889,540	2/2-2.7
2	Handling						
2-1	Rail		Completion of the works	1	61,884	61,884	2/2-2.7
2-2	Fastening		Completion of the works	1	6,912	6,912	2/2-2.7
2-3	Sleeper		Completion of the works	1	117,634	117,634	2/2-2.7
3	Works						
3-1	Dismantling existing track		Completion of the works	1	332,926	332,926	2/2-2.7
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	582,415	1,164,830	2/2-2.7
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	496,080	992,160	2/2-2.7
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	117,120	234,240	2/2-2.7
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	196,445	392,890	2/2-2.7
4	Equipment		Completion of the procument for left or right side of the open track section	2	22,515	45,030	2/2-2.7
K	Vrbas station (km112+861.00 - km 115+001.90)						
1	Procurement						
1-1	Rail type 60E1		Completion of the Procument for left or right side of the station	2	678,960	1,357,920	2/2-3.1
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the Procument for left or right side of the station	2	154,170	308,340	2/2-3.1
1-3	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	338,505	677,010	2/2-3.1
1-4	Switches						
1-4.1	type 60E1-760-1:14		Completion of procurement for each one set of switches	12	368,198	4,418,372	2/2-3.1
1-4.2	type 60E1-300-6°		Completion of procurement for each one set of switches	4	165,255	661,020	2/2-3.1

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1-5	Ballast		Completion of the procument	1	953,060	953,060	2/2-3.1
2	Handling						
2-1	Rail		Completion of the works	1	20,948	20,948	2/2-3.1
2-2	Fastening		Completion of the works	1	2,334	2,334	2/2-3.1
2-3	Sleeper		Completion of the works	1	39,736	39,736	2/2-3.1
2-4	Switches		Completion of the works	1	14,144	14,144	2/2-3.1
3	Works						
3-1	Assembling and laying of track		Completion of the works on the left or right side of the station	2	196,886	393,772	2/2-3.1
3-2	Assembling and laying of switches		Completion of laying for each one set of switches	16	17,999	287,984	2/2-3.1
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	216,160	432,320	2/2-3.1
3-4	Grinding of rails.		Completion of the works on the left or right side of the station	2	13,907	27,814	2/2-3.1
3-5	Welding and stress relief		Completion of the works on the left or right side of the station	2	89,268	178,536	2/2-3.1
4	Equipment		Completion of the works on left or right side of the station	2	20,991	41,982	2/2-3.1
L	Open track section Vrbas-Vrbas existing st.						
1	Procurement						
1-1	Rail						
1-1.1	Rail type 49E1		Completion of the procument for left or right side of the open track section	2	197,281	394,562	2/2-3.2
1-1.2	Transitional rails 49E1/60E1		Completion of the procument for left or right side of the open track section	2	1,035	2,070	2/2-3.2
1-1.3	Transitional rails 49E1/S45		Completion of the procument for left or right side of the open track section	2	4,014	8,028	2/2-3.2
1-2	Elastic track fastenings for concrete sleepers and 49E1 rail		Completion of the procument for left or right side of the open track section	2	40,985	81,970	2/2-3.2
1-3	Concrete sleepers,2.40m long		Completion of the procument for left or right side of the open track section	2	127,195	254,390	2/2-3.2
1-4	Switches		Completion of procurement for each one set of switches				
1-4.1	type 49E1-300-6°		Completion of procurement for each one set of switches	6	132,160	792,960	2/2-3.2
1-4.2	type 49E1-200-6°		Completion of procurement for each one set of switches	2	119,350	238,700	2/2-3.2
1-4.2	type 49E1-215-6º - crossover		Completion of procurement for each one set of switches	2	296,450	592,900	2/2-3.2
1-5	Ballast		Completion of the procument	1	352,840	352,840	2/2-3.2

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Handling						
2-1	Rail		Completion of the works	1	7,420	7,420	2/2-3.2
2-2	Fastening		Completion of the works	1	984	984	2/2-3.2
2-3	Sleeper		Completion of the works	1	16,756	16,756	2/2-3.2
2-4	Switches		Completion of the works	1	6,360	6,360	2/2-3.2
3	Works						
3-1	Dismantling existing track		Completion of the works	1	133,056	133,056	2/2-3.2
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	74,503	149,006	2/2-3.2
3-3	Assembling and laying of switches		Completion of the procument for left or right side of the open track section	10	16,000	160,000	2/2-3.2
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	102,620	205,240	2/2-3.2
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	50,515	101,030	2/2-3.2
4	Equipment		Completion of the procument for left or right side of the open track section	2	46,372	92,744	2/2-3.2
M	Open track section Vrbas-Lovćenac (km 115+001.90 - km 128+849.48)						
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	2,784,000	5,568,000	2/2-4.1
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	625,382	1,250,765	2/2-4.1
1-2.2	Fastenings for running rail and check rail,type 60E1		Completion of the procument for left or right side of the open track section	2	3,388	6,775	2/2-4.1
1-3	Sleeper						
1-3.1	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	1,373,131	2,746,261	2/2-4.1
1-3.2	Concrete sleepers on bridges, 2.60m long		Completion of the procument for left or right side of the open track section	2	7,659	15,319	2/2-4.1
1-4	Ballast		Completion of the procument	1	2,506,100	2,506,100	2/2-4.1
2	Handling						
2-1	Rail		Completion of the works	1	85,906	85,906	2/2-4.1
2-2	Fastening		Completion of the works	1	9,420	9,420	2/2-4.1
2-3	Sleeper		Completion of the works	1	162,066	162,066	2/2-4.1
3	Works						
3-1	Dismantling existing track		Completion of the works	1	876,636	876,636	2/2-4.1

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	802,965	1,605,930	2/2-4.1
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	679,640	1,359,280	2/2-4.1
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	160,308	320,616	2/2-4.1
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	269,665	539,330	2/2-4.1
4	Equipment		Completion of the procument for left or right side of the open track section	2	31,300	62,600	2/2-4.1
N	Lovćenac station (km128+849.48 - km130+141.85)						
1	Procurement						
1-1	Rail type 60E1		Completion of the Procument for left or right side of the station	2	419,555	839,110	2/2-4.2
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the Procument for left or right side of the station	2	95,285	190,570	2/2-4.2
1-3	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	209,215	418,430	2/2-4.2
1-4	Switches,type 60E1-760-1:14		Completion of procurement for each one set of switches	10	368,200	3,682,000	2/2-4.2
1-5	Ballast		Completion of the procument	1	474,300	474,300	2/2-4.2
2	Handling						
2-1	Rail		Completion of the works	1	12,946	12,946	2/2-4.2
2-2	Fastening		Completion of the works	1	1,442	1,442	2/2-4.2
2-3	Sleeper		Completion of the works	1	24,560	24,560	2/2-4.2
2-4	Switches		Completion of the works	1	9,390	9,390	2/2-4.2
3	Works						
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	1	75,224	75,224	2/2-4.2
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	121,550	243,100	2/2-4.2
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	10	17,999	179,990	2/2-4.2
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	135,830	271,660	2/2-4.2
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	15,737	31,474	2/2-4.2
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	75,366	150,732	2/2-4.2
4	Equipment		Completion of the works on left or right side of the station	2	15,635	31,270	2/2-4.2

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
O	Open track section Lovćenac-Bačka Topola (km 130+141.85 - km 142+691.40)						
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	2,538,885	5,077,770	2/2-4.3
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	576,490	1,152,980	2/2-4.3
1-3	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	1,265,780	2,531,560	2/2-4.3
1-4	Ballast		Completion of the procument	1	2,353,040	2,353,040	2/2-4.3
2	Handling						
2-1	Rail		Completion of the works	1	78,342	78,342	2/2-4.3
2-2	Fastening		Completion of the works	1	8,732	8,732	2/2-4.3
2-3	Sleeper		Completion of the works	1	148,592	148,592	2/2-4.3
3	Works						
3-1	Dismantling existing track		Completion of the works	1	773,094	773,094	2/2-4.3
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	735,650	1,471,300	2/2-4.3
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	625,300	1,250,600	2/2-4.3
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	147,010	294,020	2/2-4.3
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	246,585	493,170	2/2-4.3
4	Equipment		Completion of the procument for left or right side of the open track section	2	26,177	52,354	2/2-4.3
P	Bačka Topola station (km 142+691.40 - km 144+269.38)						
1	Procurement						
1-1	Rail						
1-1.1	Rail type 60E1,		Completion of the Procument for left or right side of the station	2	477,176	954,352	2/2-4.4
1-1.2	Rail type 49E1		Completion of the Procument for left or right side of the station	2	127,330	254,660	2/2-4.4
1-1.3	Transitional rails 49E1/60E1		Completion of the Procument for left or right side of the station	2	3,434	6,868	2/2-4.4
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail,		Completion of the Procument for left or right side of the station	2	108,347	216,694	2/2-4.4

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1-2.2	Elastic track fastenings for concrete sleepers and 49E1 rail		Completion of the Procument for left or right side of the station	2	27,058	54,116	2/2-4.4
1-3	Sleeper						
1-3.1	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	237,899	475,799	2/2-4.4
1-3.2	Concrete sleepers , 2.40m long		Completion of the Procument for left or right side of the station	2	83,976	167,951	2/2-4.4
1-4	Switches						
1-4.1	type 60E1-760-1:14		Completion of procurement for each one set of switches	15	368,199	5,522,980	2/2-4.4
1-4.2	type 60E1-300-6°		Completion of procurement for each one set of switches	2	165,255	330,511	2/2-4.4
1-4.3	type 49E1-300-6°		Completion of procurement for each one set of switches	6	132,160	792,957	2/2-4.4
1-5	Ballast		Completion of the procument	1	761,710	761,710	2/2-4.4
2	Handling						
2-1	Rail		Completion of the works	1	19,518	19,518	2/2-4.4
2-2	Fastening		Completion of the works	1	2,290	2,290	2/2-4.4
2-3	Sleeper		Completion of the works	1	38,988	38,988	2/2-4.4
2-4	Switches		Completion of the works	1	19,481	19,481	2/2-4.4
3	Works						
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	2	89,970	179,940	2/2-4.4
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	186,250	372,500	2/2-4.4
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	23	17,478	401,994	2/2-4.4
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	223,665	447,330	2/2-4.4
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	20,068	40,136	2/2-4.4
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	136,600	273,200	2/2-4.4
4	Equipment		Completion of the works on left or right side of the station	2	33,160	66,320	2/2-4.4
Q	Open track section Bačka Topola-Žednik (km 144+269.38 - km 156+211.82)						
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	2,504,460	5,008,920	2/2-4.5

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	569,385	1,138,770	2/2-4.5
1-3	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	1,250,175	2,500,350	2/2-4.5
1-4	Ballast		Completion of the procument	1	2,362,660	2,362,660	2/2-4.5
2	Handling						
2-1	Rail		Completion of the works	1	77,278	77,278	2/2-4.5
2-2	Fastening		Completion of the works	1	8,626	8,626	2/2-4.5
2-3	Sleeper		Completion of the works	1	146,758	146,758	2/2-4.5
3	Works						
3-1	Dismantling existing track		Completion of the works	1	346,108	346,108	2/2-4.5
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	726,495	1,452,990	2/2-4.5
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	618,800	1,237,600	2/2-4.5
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	145,180	290,360	2/2-4.5
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	243,360	486,720	2/2-4.5
4	Equipment		Completion of the procument for left or right side of the open track section	2	24,925	49,850	2/2-4.5
R	Žednik station (km 156+211.82 - km 157+500.66)						
1	Procurement						
1-1	Rail						
1-1.1	Rail type 60E1,		Completion of the Procument for left or right side of the station	2	414,829	829,657	2/2-4.6
1-1.2	Rail type 49E1		Completion of the Procument for left or right side of the station	2	25,247	50,493	2/2-4.6
1-1.3	Transitional rails 49E1/60E1		Completion of the Procument for left or right side of the station	2	1,725	3,450	2/2-4.6
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail,		Completion of the Procument for left or right side of the station	2	94,194	188,388	2/2-4.6
1-2.2	Elastic track fastenings for concrete sleepers and 49E1 rail		Completion of the Procument for left or right side of the station	2	10,796	21,592	2/2-4.6
1-3	Sleeper						
1-3.1	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	206,819	413,639	2/2-4.6

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1-3.2	Concrete sleepers , 2.40m long		Completion of the Procument for left or right side of the station	2	33,506	67,011	2/2-4.6
1-4	Switches						
1-4.1	type 60E1-760-1:14		Completion of procurement for each one set of switches	10	368,199	3,681,989	2/2-4.6
1-4.2	type 60E1-300-6°		Completion of procurement for each one set of switches	2	165,256	330,511	2/2-4.6
1-4.3	type 49E1-300-6°		Completion of procurement for each one set of switches	1	132,160	132,160	2/2-4.6
1-5	Ballast		Completion of the procument	1	562,880	562,880	2/2-4.6
2	Handling						
2-1	Rail		Completion of the works	1	13,790	13,790	2/2-4.6
2-2	Fastening		Completion of the works	1	1,684	1,684	2/2-4.6
2-3	Sleeper		Completion of the works	1	28,692	28,692	2/2-4.6
2-4	Switches		Completion of the works	1	11,492	11,492	2/2-4.6
3	Works						
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	2	91,472	182,944	2/2-4.6
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	139,028	278,056	2/2-4.6
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	13	17,845	231,985	2/2-4.6
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	156,990	313,980	2/2-4.6
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	15,737	31,474	2/2-4.6
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	88,118	176,236	2/2-4.6
4	Equipment		Completion of the works on left or right side of the station	2	21,508	43,016	2/2-4.6
S	Open track section Žednik-Naumovićevo (km 157+500.66 - km 165+665.64)						
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	1,727,880	3,455,760	2/2-4.7
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	392,345	784,690	2/2-4.7
1-3	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	861,460	1,722,920	2/2-4.7
1-4	Ballast		Completion of the procument	1	1,622,460	1,622,460	2/2-4.7
2	Handling						

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2-1	Rail		Completion of the works	1	53,316	53,316	2/2-4.7
2-2	Fastening		Completion of the works	1	5,944	5,944	2/2-4.7
2-3	Sleeper		Completion of the works	1	101,126	101,126	2/2-4.7
3	Works						
3-1	Dismantling existing track		Completion of the works	1	237,948	237,948	2/2-4.7
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	500,610	1,001,220	2/2-4.7
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	426,400	852,800	2/2-4.7
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	100,040	200,080	2/2-4.7
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	167,923	335,845	2/2-4.7
4	Equipment		Completion of the procument for left or right side of the open track section	2	19,175	38,350	2/2-4.7
T	Naumovićevo station (km 165+665.64 - km 167+585.96)						
1	Procurement						
1-1	Rail		Completion of rail procurement on left or right side of the station				
1-1.1	Rail type 60E1,		Completion of the Procument for left or right side of the station	2	592,381	1,184,763	2/2-5.1
1-1.2	Rail type 49E1		Completion of the Procument for left or right side of the station	2	47,041	94,081	2/2-5.1
1-1.3	Transitional rails 49E1/60E1		Completion of the Procument for left or right side of the station	2	1,568	3,136	2/2-5.1
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail,		Completion of the Procument for left or right side of the station	2	134,932	269,863	2/2-5.1
1-2.2	Elastic track fastenings for concrete sleepers and 49E1 rail		Completion of the Procument for left or right side of the station	2	9,728	19,457	2/2-5.1
1-3	Sleeper						
1-3.1	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	296,273	592,546	2/2-5.1
1-3.2	Concrete sleepers , 2.40m long		Completion of the Procument for left or right side of the station	2	30,192	60,384	2/2-5.1
1-4	Switches,type 60E1-760-1:14		Completion of procurement for each one set of switches	14	368,200	5,154,800	2/2-5.1
1-5	Ballast		Completion of the procument	1	803,040	803,040	2/2-5.1
2	Handling						
2-1	Rail		Completion of the works	1	18,276	18,276	2/2-5.1

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2-2	Fastening		Completion of the works	1	2,260	2,260	2/2-5.1
2-3	Sleeper		Completion of the works	1	38,754	38,754	2/2-5.1
2-4	Switches		Completion of the works	1	13,146	13,146	2/2-5.1
3	Works						
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	2	76,762	153,524	2/2-5.1
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	189,580	379,160	2/2-5.1
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	14	17,999	251,986	2/2-5.1
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	231,835	463,670	2/2-5.1
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	12,443	24,886	2/2-5.1
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	111,890	223,780	2/2-5.1
4	Equipment		Completion of the works on left or right side of the station	2	15,808	31,616	2/2-5.1
U	Open track section Naumovićevo-Subotica (km 167+585.96 - km 174+168.84)						
1	Procurement						
1-1	Rail						
1-1.1	Rail type 60E1,		Completion of the procument for left or right side of the open track section	2	700,000	1,400,000	2/2-5.2
1-1.2	Rail type 49E1		Completion of the procument for left or right side of the open track section	2	88,200	176,400	2/2-5.2
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail,		Completion of the procument for left or right side of the open track section	2	157,469	314,939	2/2-5.2
1-2.2	Elastic track fastenings for concrete sleepers and 49E1 rail		Completion of the procument for left or right side of the open track section	2	18,371	36,741	2/2-5.2
1-3	Sleeper						
1-3.1	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	345,755	691,510	2/2-5.2
1-3.2	Concrete sleepers , 2.40m long		Completion of the procument for left or right side of the open track section	2	57,070	114,140	2/2-5.2
1-4	Ballast		Completion of the procument	1	1,626,480	1,626,480	2/2-5.2
2	Handling						
2-1	Rail		Completion of the works	1	24,838	24,838	2/2-5.2
2-2	Fastening		Completion of the works	1	2,812	2,812	2/2-5.2
2-3	Sleeper		Completion of the works	1	48,098	48,098	2/2-5.2

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Works						
3-1	Dismantling existing track		Completion of the works	1	35,640	35,640	2/2-5.2
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	233,015	466,030	2/2-5.2
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	196,880	393,760	2/2-5.2
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	95,160	190,320	2/2-5.2
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	69,483	138,965	2/2-5.2
4	Equipment		Completion of the procument for left or right side of the open track section	2	11,280	22,560	2/2-5.2
V	Subotica junction railway station (km 174+168.84 - km 177+276.75)						
1	Procurement						
1-1	Rail						
1-1.1	Rail type 60E1		Completion of the Procument for left or right side of the station	2	2,333,619	4,667,238	2/2-5.3
1-1.2	Transitional rails 49E1/60E1		Completion of the Procument for left or right side of the station	2	3,136	6,272	2/2-5.3
1-2	Fastening						
1-2.1	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the Procument for left or right side of the station	2	352,096	704,192	2/2-5.3
1-2.2	Rail fastenings for running rail (49E1) and check rail (49E1) for concrete sleepers		Completion of the Procument for left or right side of the station	2	335,114	670,228	2/2-5.3
1-3	Concrete sleepers, 2.60m long		Completion of the Procument for left or right side of the station	2	1,167,125	2,334,250	2/2-5.3
1-4	Switches						
1-4.1	type 60E1-300-6°		Completion of procurement for each one set of switches	53	168,140	8,911,402	2/2-5.3
1-4.2	type 60E1-200-6°		Completion of procurement for each one set of switches	13	140,116	1,821,513	2/2-5.3
1-4.3	type 60E1-215-6°		Completion of procurement for each one set of switches	11	154,128	1,695,408	2/2-5.3
1-4.4	type 60E1-12º cross		Completion of procurement for each one set of switches	8	140,116	1,120,931	2/2-5.3
1-5	Ballast		Completion of the procument	1	3,300,860	3,300,860	2/2-5.3
2	Handling						
2-1	Rail		Completion of the works	1	77,974	77,974	2/2-5.3
2-2	Fastening		Completion of the works	1	8,030	8,030	2/2-5.3

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2-3	Sleeper		Completion of the works	1	137,010	137,010	2/2-5.3
2-4	Switches		Completion of the works	1	57,970	57,970	2/2-5.3
3	Works						
3-1	Dismantling existing track		Completion of the works on the left or right side of the station	2	456,765	913,530	2/2-5.3
3-2	Assembling and laying of track		Completion of the works on the left or right side of the station	2	816,010	1,632,020	2/2-5.3
3-3	Assembling and laying of switches		Completion of laying for each one set of switches	108	17,184	1,855,872	2/2-5.3
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on the left or right side of the station	2	942,930	1,885,860	2/2-5.3
3-5	Grinding of rails.		Completion of the works on the left or right side of the station	2	122,425	244,850	2/2-5.3
3-6	Welding and stress relief		Completion of the works on the left or right side of the station	2	570,193	1,140,385	2/2-5.3
4	Equipment		Completion of the works on left or right side of the station	2	74,808	149,616	2/2-5.3
W	Open track section Subotica- state border (km 177+276.75 - km 184+635.07)						
1	Procurement						
1-1	Rail type 60E1		Completion of the procument for left or right side of the open track section	2	1,551,370	3,102,740	2/2-5.4
1-2	Elastic track fastenings for concrete sleepers and 60E1 rail		Completion of the procument for left or right side of the open track section	2	352,095	704,190	2/2-5.4
1-3	Concrete sleepers, 2.60m long		Completion of the procument for left or right side of the open track section	2	773,080	1,546,160	2/2-5.4
1-4	Ballast		Completion of the procument	1	1,454,670	1,454,670	2/2-5.4
2	Handling						
2-1	Rail		Completion of the works	1	47,870	47,870	2/2-5.4
2-2	Fastening		Completion of the works	1	5,334	5,334	2/2-5.4
2-3	Sleeper		Completion of the works	1	90,752	90,752	2/2-5.4
3	Works						
3-1	Dismantling existing track		Completion of the works	1	221,278	221,278	2/2-5.4
3-2	Assembling and laying of track		Completion of the procument for left or right side of the open track section	2	449,758	899,516	2/2-5.4
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the procument for left or right side of the open track section	2	382,720	765,440	2/2-5.4
3-4	Grinding of rails.		Completion of the procument for left or right side of the open track section	2	89,791	179,582	2/2-5.4
3-5	Welding and stress relief		Completion of the procument for left or right side of the open track section	2	157,440	314,880	2/2-5.4

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Equipment		Completion of the procument for left or right side of the open track section	2	29,380	58,760	2/2-5.4
X	Bridge superstructure at km 81+650.20						
1	Procurement						
1-1	Rail		Completion of rail procurement on left or right track	2	73,685	147,370	2/2-6.1
1-2	Fastening		Completion of fastening procurement on left or right track	2	16,766	33,532	2/2-6.1
1-3	Sleeper		Completion of sleeper procurement on left or right track	2	32,075	64,150	2/2-6.1
1-4	Elastic rail pads under concrete sleepers		Completion of elastic rail pads procurement on left or right track	2	2,039	4,078	2/2-6.1
1-5	Expansion regulator		Completion of Expansion regulator procurement on left or right track	2	48,002	96,004	2/2-6.1
1-6	Ballast		Completion of ballast procurement on left or right track	1	52,860	52,860	2/2-6.1
2	Handling						
2-1	Rail		Completion of rail handling on left or right track	1	2,272	2,272	2/2-6.1
2-2	Fastening		Completion of fastening handling on left or right track	1	252	252	2/2-6.1
2-3	Sleeper		Completion of sleeper handling on left or right track	1	2,156	2,156	2/2-6.1
2-4	Expansion regulator		Completion of Expansion regulator handling on left or right track	1	698	698	2/2-6.1
3	Works						2/2-6.1
3-1	Assembling and laying of track		Completion of the works on left or right track	2	10,683	21,366	2/2-6.1
3-2	Assembling and laying of Expansion regulator		Completion of the works on left or right track	2	6,999	13,998	2/2-6.1
3-3	Laying of check rails		Completion of the works on left or right track	2	13,400	26,800	2/2-6.1
3-4	Mechanized leveling and dynamic stabilization of the track		Completion of the works on left or right track	2	13,100	26,200	2/2-6.1
3-5	Welding and stress relief		Completion of the works on left or right track	2	6,534	13,068	2/2-6.1
4	Equipment		Completion of the works on left or right track	2	226	452	2/2-6.1
Y	Bridge superstructure at km 0+749,71						
1	Procurement						
1-1	Rail		Completion of rail procurement on left or right track	2	66,943	133,886	2/2-6.1
1-2	Fastening		Completion of fastening procurement on left or right track	2	15,214	30,428	2/2-6.1
1-3	Sleeper		Completion of sleeper procurement on left or right track	2	29,109	58,218	2/2-6.1
1-4	Elastic rail pads under concrete sleepers		Completion of elastic rail pads procurement on left or right track	2	2,039	4,078	2/2-6.1
1-5	Expansion regulator		Completion of Expansion regulator procurement on left or right track	2	48,002	96,004	2/2-6.1

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1-6	Ballast		Completion of ballast procurement on left or right track	1	43,350	43,350	2/2-6.1
2	Handling						2/2-6.1
2-1	Rail		Completion of rail handling on left or right track	1	2,062	2,062	2/2-6.1
2-2	Fastening		Completion of fastening handling on left or right track	1	228	228	2/2-6.1
2-3	Sleeper		Completion of sleeper handling on left or right track	1	1,958	1,958	2/2-6.1
2-4	Expansion regulator		Completion of Expansion regulator handling on left or right track	1	698	698	2/2-6.1
3	Works						
3-1	Removal of existing ballast		Completion of the works	1	1,023	1,023	2/2-6.1
3-2	Dismantling existing track		Completion of the works	1	9,216	9,216	2/2-6.1
3-3	Dismantling of check rails		Completion of the works	1	9,600	9,600	2/2-6.1
3-4	Assembling and laying of track		Completion of the works on left or right track	2	9,695	19,390	2/2-6.1
3-5	Assembling and laying of Expansion regulator		Completion of the works on left or right track	2	6,999	13,998	2/2-6.1
3-6	Laying of check rails		Completion of the works on left or right track	2	12,083	24,166	2/2-6.1
3-7	Mechanized leveling and dynamic stabilization of the track		Completion of the works on left or right track	2	12,257	24,514	2/2-6.1
3-8	Welding and stress relief		Completion of the works on left or right track	2	6,418	12,836	2/2-6.1
4	Equipment		Completion of the works on left or right track	2	226	452	2/2-6.1
Z	Bridge superstructure at km 78+401,27						
1	Procurement						
1-1	Rail		Completion of rail procurement	1	37,922	37,922	2/2-6.1
1-2	Fastening		Completion of fastening procurement	1	7,888	7,888	2/2-6.1
1-3	Sleeper		Completion of sleeper procurement	1	21,224	21,224	2/2-6.1
1-4	Elastic rail pads under concrete sleepers		Completion of elastic rail pads procurement	1	1,698	1,698	2/2-6.1
1-5	Ballast		Completion of ballast procurement	1	13,978	13,978	2/2-6.1
2	Handling			1			2/2-6.1
2-1	Rail		Completion of rail handling	1	694	694	2/2-6.1
2-2	Fastening		Completion of fastening handling	1	92	92	2/2-6.1
2-3	Sleeper		Completion of sleeper handling	1	804	804	2/2-6.1
3	Works			1			2/2-6.1
3-1	Assembling and laying of track		Completion of the works	1	6,964	6,964	2/2-6.1
3-2	Laying of check rails		Completion of the works	1	10,056	10,056	2/2-6.1
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the works	1	5,588	5,588	2/2-6.1
3-4	Welding and stress relief		Completion of the works	1	2,366	2,366	2/2-6.1
4	Equipment		Completion of the works	1	452	452	2/2-6.1

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
AA	Bridge superstructure at km 82+152.69						
1	Procurement						
1-1	Rail		Completion of rail procurement on left or right track	2	32,688	65,376	2/2-6.1
1-2	Fastening		Completion of fastening procurement on left or right track	2	7,463	14,926	2/2-6.1
1-3	Sleeper		Completion of sleeper procurement on left or right track	2	14,278	28,556	2/2-6.1
1-4	Elastic rail pads under concrete sleepers		Completion of elastic rail pads procurement on left or right track	2	2,039	4,078	2/2-6.1
1-5	Ballast		Completion of ballast procurement on left or right track	2	8,930	17,860	2/2-6.1
2	Handling						2/2-6.1
2-1	Rail		Completion of rail handling on left or right track	2	503	1,006	2/2-6.1
2-2	Fastening		Completion of fastening handling on left or right track	2	55	110	2/2-6.1
2-3	Sleeper		Completion of sleeper handling on left or right track	2	479	958	2/2-6.1
3	Works						2/2-6.1
3-1	Assembling and laying of track		Completion of the works on left or right track	2	4,732	9,464	2/2-6.1
3-2	Laying of check rails		Completion of the works on left or right track	2	5,880	11,760	2/2-6.1
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the works on left or right track	2	4,159	8,318	2/2-6.1
3-4	Welding and stress relief		Completion of the works on left or right track	2	1,549	3,098	2/2-6.1
4	Equipment		Completion of the works on left or right track	2	226	452	2/2-6.1
AB	Elastic rail pads under concrete sleepers for short-span bridges and galleries						
1	Bridge at km 76+615.5		Completion of the works	1	6,120	6,120	2/2-6.1
2	Bridge at km 77+814.32		Completion of the works	1	8,160	8,160	2/2-6.1
3	Bridge at km 101+980.62		Completion of the works	1	4,080	4,080	2/2-6.1
4	Bridge at km 81+283.13		Completion of the works	1	4,080	4,080	2/2-6.1
AC	Bridge superstructure at km 110+351.21						
1	Procurement						
1-1	Rail		Completion of rail procurement on left or right track	2	35,319	70,638	2/2-6.2
1-2	Fastening		Completion of fastening procurement on left or right track	2	8,037	16,074	2/2-6.2
1-3	Sleeper		Completion of sleeper procurement on left or right track	2	15,377	30,754	2/2-6.2
1-4	Ballast		Completion of ballast procurement on left or right track	2	9,889	19,778	2/2-6.2
2	Handling						
2-1	Rail		Completion of rail handling on left or right track	2	543	1,086	2/2-6.2
2-2	Fastening		Completion of fastening handling on left or right track	2	59	118	2/2-6.2

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2-3	Sleeper		Completion of sleeper handling on left or right track	2	517	1,034	2/2-6.2
3	Works						
3-1	Assembling and laying of track		Completion of the works on left or right track	2	11,309	22,618	2/2-6.2
3-2	Mechanized leveling and dynamic stabilization of the track		Completion of the works on left or right track	2	4,433	8,866	2/2-6.2
3-3	Welding and stress relief		Completion of the works on left or right track	2	1,910	3,820	2/2-6.2
3-4	Other works		Completion of the works on left or right track	2	2,389	4,778	2/2-6.2
4	Equipment		Completion of the works on left or right track	2	226	452	2/2-6.2
AD	Bridge superstructure at km 117+155.43						
1	Procurement						
1-1	Rail		Completion of rail procurement on left or right track	2	626,841	1,253,682	2/2-6.3
1-2	Fastening		Completion of fastening procurement on left or right track	2	142,349	284,698	2/2-6.3
1-3	Sleeper		Completion of sleeper procurement on left or right track	2	272,323	544,646	2/2-6.3
1-4	Expansion regulator		Completion of Expansion regulator procurement on left or right track	2	48,002	96,004	2/2-6.3
1-5	Ballast		Completion of ballast procurement on left or right track	1	360,580	360,580	2/2-6.3
2	Handling						
2-1	Rail		Completion of rail handling on left or right track	2	9,669	19,338	2/2-6.3
2-2	Fastening		Completion of fastening handling on left or right track	2	1,077	2,154	2/2-6.3
2-3	Sleeper		Completion of sleeper handling on left or right track	2	9,171	18,342	2/2-6.3
2-4	Expansion regulator		Completion of Expansion regulator handling on left or right track	2	349	698	2/2-6.3
3	Works						
3-1	Assembling and laying of track		Completion of the works on left or right track	2	197,533	395,066	2/2-6.3
3-2	Assembling and laying of Expansion regulator		Completion of the works on left or right track	2	6,998	13,996	2/2-6.3
3-3	Mechanized leveling and dynamic stabilization of the track		Completion of the works on left or right track	2	81,223	162,446	2/2-6.3
3-4	Welding and stress relief		Completion of the works on left or right track	2	34,022	68,044	2/2-6.3
3-5	Other works		Completion of the works on left or right track	2	9,649	19,298	2/2-6.3
4	Equipment		Completion of the works on left or right track	2	455	910	2/2-6.3
AE	Bridge superstructure at km131+830.64						
1	Procurement						
1-1	Rail		Completion of rail procurement on left or right track	2	216,642	433,284	2/2-6.3
1-2	Fastening		Completion of fastening procurement on left or right track	2	49,209	98,418	2/2-6.3

3. Superstructure Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1-3	Sleeper		Completion of sleeper procurement on left or right track	2	94,141	188,282	2/2-6.3
1-4	Ballast		Completion of ballast procurement on left or right track	1	125,250	125,250	2/2-6.3
2	Handling						
2-1	Rail		Completion of rail handling on left or right track	2	3,341	6,682	2/2-6.3
2-2	Fastening		Completion of fastening handling on left or right track	2	367	734	2/2-6.3
2-3	Sleeper		Completion of sleeper handling on left or right track	2	3,120	6,240	2/2-6.3
3	Works						
3-1	Assembling and laying of track		Completion of the works on left or right track	2	68,569	137,138	2/2-6.3
3-2	Mechanized leveling and dynamic stabilization of the track		Completion of the works on left or right track	2	26,780	53,560	2/2-6.3
3-3	Welding and stress relief		Completion of the works on left or right track	2	13,342	26,684	2/2-6.3
3-4	Other works		Completion of the works on left or right track	2	4,698	9,396	2/2-6.3
4	Equipment		Completion of the works on left or right track	2	226	452	2/2-6.3
AF	Gallery superstructure at km 114+716.45						
1	Procurement						
1-1	Rail		Completion of rail procurement on left or right track	2	29,680	59,360	2/2-6.3
1-2	Fastening		Completion of fastening procurement on left or right track	2	6,773	13,546	2/2-6.3
1-3	Sleeper		Completion of sleeper procurement on left or right track	2	12,960	25,920	2/2-6.3
1-4	Ballast		Completion of ballast procurement on left or right track	1	15,412	15,412	2/2-6.3
2	Handling						
2-1	Rail		Completion of rail handling on left or right track	2	456	912	2/2-6.3
2-2	Fastening		Completion of fastening handling on left or right track	2	50	100	2/2-6.3
2-3	Sleeper		Completion of sleeper handling on left or right track	2	435	870	2/2-6.3
3	Works						
3-1	Assembling and laying of track		Completion of the works on left or right track	2	9,328	18,656	2/2-6.3
3-2	Mechanized leveling and dynamic stabilization of the track		Completion of the works on left or right track	2	3,639	7,278	2/2-6.3
3-3	Welding and stress relief		Completion of the works on left or right track	2	2,127	4,254	2/2-6.3
3-4	Other works		Completion of the works on left or right track	2	2,389	4,778	2/2-6.3
4	Equipment		Completion of the works on left or right track	2	226	452	2/2-6.3
AG	Gallery at km 177+623.90						
3-1	Elastomer rail pads under sleepers for Gallery at km 177+623.90		Completion of the works on left or right track	1	4,727	4,727	2/2-6.3
Summary(USD)						**249,437,955**	

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
A	Railway gallery at km 78+401.27						
1	Pile of the bridge	Located on frame structure	Completion of each pile located on frame structure	153	16,569	2,535,057	2/1-1.3
2	Pile Cap		Completion of the works	1	2,180,090	2,180,090	2/1-1.3
3	Pier shaft and wall		Completion of the works	1	2,474,830	2,474,830	2/1-1.3
4	Bridge deck slab		Completion of the works	1	2,452,400	2,452,400	2/1-1.3
5	Waterproofing		Completion of the works	1	221,110	221,110	2/1-1.3
6	Railing and fence of steel mesh		Completion of the works	1	39,883	39,883	2/1-1.3
7	Emplacement of elastic mat		Completion of the works	1	13,297	13,297	2/1-1.3
8	Testing of Bridge		Completion of the works	1	19,767	19,767	2/1-1.3
B	Railway gallery at km 81+283,13						
1	Pile of the bridge	Located on frame structure	Completion of each pile located on frame structure	89	12,668	1,127,452	2/1-1.4
2	Pile Cap		Completion of the works	1	1,857,100	1,857,100	2/1-1.4
3	Pier shaft and wall		Completion of the works	1	1,341,950	1,341,950	2/1-1.4
4	Bridge deck slab		Completion of the works	1	591,290	591,290	2/1-1.4
5	Waterproofing		Completion of the works	1	79,248	79,248	2/1-1.4
6	Emplacement of elastic mat		Completion of the works	1	9,573	9,573	2/1-1.4
7	Railing and fence of steel mesh		Completion of the works	1	16,906	16,906	2/1-1.4
8	Testing of Bridge		Completion of the works	1	16,959	16,959	2/1-1.4
C	Railway bridge at km 81+650,20						
1	Pile of abutment and pier	Located on abutment C1-C4	Completion of each pile located on abutment or pier	82	9,288	761,616	2/1-1.6
2	Pile Cap of abutment and pier	Located on abutment C1-C4	Completion of the pile cap of each abutment or pier	4	724,925	2,899,700	2/1-1.6
3	Abutment body	Located on abutment C1, C2	Completion of each abutment body	2	119,722	239,444	2/1-1.6
4	Pier shaft	Located on piers C2, C3	Completion of each pier shaft	2	526,021	1,052,042	2/1-1.6
5	Production of structural steel	EXC4-SRPS EN 1090-2	Completion of the works	1	5,606,400	5,606,400	2/1-1.6
6	Installation of structural steel	including transport and installation	Completion of installation of each span for structural steel	3	315,082	945,246	2/1-1.6
7	Bridge deck slab		Completion of the works	1	1,050,850	1,050,850	2/1-1.6
8	Waterproofing		Completion of the works	1	172,872	172,872	2/1-1.6
9	Bearings		Completion of installation for each bearing	1	141,950	141,950	2/1-1.6

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
10	Expansion joints		Completion of expansion joints	1	39,439	39,439	2/1-1.6
11	Emplacement of elastic mat		Completion of installation of elastic mat	1	54,679	54,679	2/1-1.6
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	51,125	51,125	2/1-1.6
13	All other works of Bridge		Completion of all works of Bridge	1	59,305	59,305	2/1-1.6
D	Railway gallery at km 82+152,69						
1	Pile of railway gallery	Located on frame structure	Completion of each pile located on frame structure	96	11,712	1,124,352	2/1-1.7
2	Pile Cap		Completion of the works	1	1,455,230	1,455,230	2/1-1.7
3	Pier shaft and wall		Completion of the works	1	1,621,220	1,621,220	2/1-1.7
4	Bridge deck slab		Completion of the works	1	776,470	776,470	2/1-1.7
5	Waterproofing		Completion of the works	1	111,980	111,980	2/1-1.7
6	Emplacement of elastic mat		Completion of the works	1	14,387	14,387	2/1-1.7
7	Railing and fence of steel mesh		Completion of the works	1	20,114	20,114	2/1-1.7
8	Testing of Bridge		Completion of the works	1	17,608	17,608	2/1-1.7
E	Overpass bridge at km84+809.19（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment C1-C6	Completion of each pile located on abutment or pier	48	6,143	294,864	2/1-1.8
2	Pile Cap of abutment and pier	Located on abutment C1-C6	Completion of the pile cap of each abutment or pier	6	45,261	271,566	2/1-1.8
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	70,713	141,426	2/1-1.8
4	Pier shaft	Located on piers C2, C3, C4, C5	Completion of each pier shaft	4	15,724	62,896	2/1-1.8
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	81,208	406,040	2/1-1.8
6	Installation of main girders	Installation of main girders	Completion of installation of each span	5	20,301	101,505	2/1-1.8
7	Bridge deck slab		Completion of the works	1	227,850	227,850	2/1-1.8
8	Waterproofing		Completion of the works	1	205,980	205,980	2/1-1.8
9	Bearings		Completion of installation for each bearing	8	1,105	8,840	2/1-1.8
10	Expansion joints		Completion of expansion joints	1	27,318	27,318	2/1-1.8
11	Drainage		Completion of the drainage work	1	2,840	2,840	2/1-1.8
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	45,909	45,909	2/1-1.8
13	Pavement		Completion of the pavement	1	48,922	48,922	2/1-1.8
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.8

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
F	Overpass bridge at km89+315.15（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment C1-C6	Completion of each pile located on abutment or pier	48	5,395	258,960	2/1-1.9
2	Pile Cap of abutment and pier	Located on abutment C1-C6	Completion of the pile cap of each abutment or pier	6	46,756	280,536	2/1-1.9
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	74,047	148,094	2/1-1.9
4	Pier shaft	Located on piers C2, C3, C4, C5	Completion of each pier shaft	4	16,378	65,512	2/1-1.9
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	81,283	406,415	2/1-1.9
6	Installation of main girders	Installation of main girders	Completion of installation of each span	5	20,322	101,610	
7	Bridge deck slab		Completion of the works	1	226,500	226,500	2/1-1.9
8	Waterproofing		Completion of the works	1	206,670	206,670	2/1-1.9
9	Bearings		Completion of installation for each bearing	1	8,840	8,840	2/1-1.9
10	Expansion joints		Completion of expansion joints	1	27,156	27,156	2/1-1.9
11	Drainage		Completion of the drainage work	1	2,823	2,823	2/1-1.9
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	45,635	45,635	2/1-1.9
13	Pavement		Completion of the pavement	1	48,631	48,631	2/1-1.9
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.9
G	Overpass bridge at km92+768.08（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment C1-C6	Completion of each pile located on abutment or pier	48	6,616	317,568	2/1-1.11
2	Pile Cap of abutment and pier	Located on abutment C1-C6	Completion of the pile cap of each abutment or pier	6	45,491	272,946	2/1-1.11
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	71,169	142,338	2/1-1.11
4	Pier shaft	Located on piers C2, C3, C4, C5	Completion of each pier shaft	4	16,211	64,844	2/1-1.11
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	87,944	439,720	2/1-1.11
6	Installation of main girders	Installation of main girders	Completion of installation of each span	5	21,988	109,940	2/1-1.11
7	Bridge deck slab		Completion of the works	1	186,000	186,000	2/1-1.11
8	Waterproofing		Completion of the works	1	206,380	206,380	2/1-1.11
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.11
10	Expansion joints		Completion of installation of expansion joints	1	27,291	27,291	2/1-1.11

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
11	Drainage		Completion of the drainage work	1	2,837	2,837	2/1-1.11
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	45,862	45,862	2/1-1.11
13	Pavement		Completion of the pavement	1	48,873	48,873	2/1-1.11
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.11
H	Overpass bridge at km98+149.45						
1	Pile of abutment and pier	Located on abutment C1-C14	Completion of each pile located on abutment or pier	116	7,518	872,088	2/1-1.14
2	Pile Cap of abutment and pier	Located on abutment C1-C14	Completion of the pile cap of each abutment or pier	14	66,373	929,222	2/1-1.14
3	Abutment body	Located on abutment C1,C14	Completion of each abutment body	2	347,194	694,388	2/1-1.14
4	Pier shaft	Located on piers C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13	Completion of each pier shaft	12	18,669	224,028	2/1-1.14
5	Cast in site concrete box girder	Cast in site	Completion of each span of girder	13	192,444	2,501,772	2/1-1.14
6	Waterproofing		Completion of the works	1	419,370	419,370	2/1-1.14
7	Bearings		Completion of installation of bearing	16	1,105	17,680	2/1-1.14
8	Expansion joints		Completion of installation of expansion joints	1	70,917	70,917	2/1-1.14
9	Drainage		Completion of the drainage work	1	17,865	17,865	2/1-1.14
10	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	65,128	65,128	2/1-1.14
11	Pavement		Completion of the pavement	1	125,007	125,007	2/1-1.14
12	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.14
I	Overpass bridge at km101+132.23（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment C1-C6	Completion of each pile located on abutment or pier	48	6,344	304,512	2/1-1.15
2	Pile Cap of abutment and pier	Located on abutment C1-C6	Completion of the pile cap of each abutment or pier	6	48,871	293,226	2/1-1.15
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	74,563	149,126	2/1-1.15
4	Pier shaft	Located on piers C2, C3, C4, C5	Completion of each pier shaft	4	16,205	64,820	2/1-1.15
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	81,699	408,495	2/1-1.15
6	Installation of main girders	Installation of main girders	Completion of installation of each span	5	17,912	89,560	2/1-1.15
7	Bridge deck slab		Completion of the works	1	228,230	228,230	2/1-1.15
8	Waterproofing		Completion of the works	1	207,590	207,590	2/1-1.15

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.15
10	Expansion joints		Completion of installation of expansion joints	1	27,302	27,302	2/1-1.15
11	Drainage		Completion of the drainage work	1	2,838	2,838	2/1-1.15
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	46,060	46,060	2/1-1.15
13	Pavement		Completion of the pavement	1	48,940	48,940	2/1-1.15
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.15
J	Overpass bridge at km 101+980,62						
1	Pile of abutment	Located on abutment C1-C2	Completion of each pile located on abutment	20	8,828	176,560	2/1-1.16
2	Pile Cap of abutment	Located on abutment C1-C2	Completion of the pile cap of each abutment	2	222,007	444,014	2/1-1.16
3	Abutment body	Located on abutment C1-C2	Completion of each abutment body	2	58,352	116,704	2/1-1.16
4	Structural steel		Completion of the works	1	938,950	938,950	2/1-1.16
5	Bridge deck slab		Completion of the works	1	374,630	374,630	2/1-1.16
6	Waterproofing		Completion of the works	1	63,630	63,630	2/1-1.16
7	Bearings		Completion of installation of bearing	1	1,224	1,224	2/1-1.16
8	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	5,686	5,686	2/1-1.16
9	Demolish existing underpass structure		Completion of demolishment	1	30,105	30,105	2/1-1.16
10	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.16
K	Overpass bridge at km102+309.98						
1	Pile of abutment and pier	Located on abutment C1-C13	Completion of each pile located on abutment or pier	112	10,971	1,228,752	2/1-1.17
2	Pile Cap of abutment and pier	Located on abutment C1-C13	Completion of the pile cap of each abutment or pier	13	70,166	912,158	2/1-1.17
3	Abutment body	Located on abutment C1,C13	Completion of each abutment body	2	360,694	721,388	2/1-1.17
4	Pier shaft	Located on piers C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12	Completion of each pier shaft	11	16,403	180,433	2/1-1.17
5	Cast in site concrete box girder	Cast in site	Completion of each span of girder in left side and/or right side of bridge	12	183,715	2,204,580	2/1-1.17
6	Waterproofing		Completion of the works	1	513,150	513,150	2/1-1.17
7	Bearings		Completion of installation of bearing	1	17,680	17,680	2/1-1.17
8	Expansion joints		Completion of installation of expansion joints	1	64,357	64,357	2/1-1.17

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
9	Drainage		Completion of the drainage work	1	13,944	13,944	2/1-1.17
10	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	77,553	77,553	2/1-1.17
11	Pavement		Completion of the pavement	1	134,674	134,674	2/1-1.17
12	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.17
L	Overpass bridge at km105+797.12（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment C1-C6	Completion of each pile located on abutment or pier	48	4,915	235,920	2/1-1.18
2	Pile Cap of abutment and pier	Located on abutment C1-C6	Completion of the pile cap of each abutment or pier	6	49,665	297,990	2/1-1.18
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	73,092	146,184	2/1-1.18
4	Pier shaft	Located on piers C2, C3, C4, C5	Completion of each pier shaft	4	14,572	58,288	2/1-1.18
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	84,543	422,715	2/1-1.18
6	Installation of main girders	Installation of main girders	Completion of installation of each span	5	21,136	105,680	2/1-1.18
7	Bridge deck slab		Completion of the works	1	235,090	235,090	2/1-1.18
8	Waterproofing		Completion of the works	1	215,610	215,610	2/1-1.18
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.18
10	Expansion joints		Completion of installation of expansion joints	1	27,329	27,329	2/1-1.18
11	Drainage		Completion of the drainage work	1	2,841	2,841	2/1-1.18
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	47,472	47,472	2/1-1.18
13	Pavement		Completion of the pavement	1	50,601	50,601	2/1-1.18
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.18
M	Overpass bridge at km108+115.69（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C6	Completion of each pile located on abutment or pier	48	5,424	260,352	2/1-1.19
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C6	Completion of the pile cap of each abutment or pier	6	50,416	302,496	2/1-1.19
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	75,060	150,120	2/1-1.19
4	Pier shaft	Located on piers C2, C3, C4, C5	Completion of each pier shaft	4	16,792	67,168	2/1-1.19
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	83,346	416,730	2/1-1.19
6	Installation of main girders	Installation of main girders	Completion of installation of each span	5	20,837	104,185	2/1-1.19

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
7	Bridge deck slab		Completion of the works	1	231,830	231,830	2/1-1.19
8	Waterproofing		Completion of the works	1	212,600	212,600	2/1-1.19
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.19
10	Expansion joints		Completion of installation of expansion joints	1	26,950	26,950	2/1-1.19
11	Drainage		Completion of the drainage work	1	2,802	2,802	2/1-1.19
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	46,813	46,813	2/1-1.19
13	Pavement		Completion of the pavement	1	49,899	49,899	2/1-1.19
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.19
N	Railway bridge at km 110+351,26						
1	Pile of abutment	Located on abutment C1-C2	Completion of each pile located on abutment	36	11,346	408,456	2/1-1.20
2	Pile Cap of abutment	Located on abutment C1-C2	Completion of the pile cap of each abutment	2	225,557	451,114	2/1-1.20
3	Abutment body	Located on abutment C1-C2	Completion of each abutment body	2	135,586	271,172	2/1-1.20
4	Structural steel		Completion of the works	1	2,156,000	2,156,000	2/1-1.20
5	Bridge deck slab		Completion of the works	1	312,620	312,620	2/1-1.20
6	Insulation works		Completion of insulation works	1	62,097	62,097	2/1-1.20
7	Bearings and extention joint		Completion of installation of bearing and extention joint	1	54,949	54,949	2/1-1.20
8	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	23,824	23,824	2/1-1.20
9	Demolish existing underpass structure		Completion of demolishment	1	253,899	253,899	2/1-1.20
10	Emplacement of elastic mat		Completion of installation of elastic mat	1	55,972	55,972	2/1-1.20
11	All other works of Bridge		Completion of all works of Bridge	1	147	147	2/1-1.20
O	Railway gallery at km 114+716,45						
1	Pile of bridge	Located on frame structure	Completion of each pile located on frame structure	70	13,163	921,410	2/1-1.22
2	Pile Cap		Completion of the works	1	1,391,510	1,391,510	2/1-1.22
3	Pier shaft and wall		Completion of the works	1	1,549,180	1,549,180	2/1-1.22
4	Bridge deck slab		Completion of the works	1	700,200	700,200	2/1-1.22
5	Waterproofing		Completion of the works	1	108,960	108,960	2/1-1.22
6	Railing and fence of steel mesh		Completion of the works	1	2,057	2,057	2/1-1.22
7	Emplacement of elastic mat		Completion of the works	1	8,233	8,233	
8	Testing of Bridge		Completion of the works	1	19,346	19,346	2/1-1.22

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
P	Railway bridge at km 117+155,43						
1	Pile of abutment and pier	Located on abutment and pier C1-C53	Completion of each pile located on abutment or pier	704	11,609	8,172,736	2/1-1.23
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C53	Completion of the pile cap of each abutment or pier	53	133,532	7,077,196	2/1-1.23
3	Abutment body	Located on abutment C1, C53	Completion of each abutment body	2	130,319	260,638	2/1-1.23
4	Pier shaft	Located on piers ,C2, C52	Completion of each pier shaft	51	158,303	8,073,453	2/1-1.23
5	Production of structural steel		Completion of each span structural steel	8	1,275,055	10,200,440	2/1-1.23
6	Installation of structural steel	Including transport and installation	Completion of installation of each span for structural steel	8	310,008	2,480,064	2/1-1.23
7	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	48	263,332	12,639,936	2/1-1.23
8	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	48	65,417	3,140,016	2/1-1.23
9	Bridge deck slab		Completion of the works	1	5,110,390	5,110,390	2/1-1.23
10	Waterproofing		Completion of the works	1	1,411,630	1,411,630	2/1-1.23
11	Bearings		Completion of installation of bearing	1088	899	978,112	2/1-1.23
12	Expansion joints		Completion of installation of expansion joints	1	322,878	322,878	2/1-1.23
13	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	486,591	486,591	2/1-1.23
14	Emplacement of elastic mat		Completion of installation of elastic mat	1	628,095	628,095	2/1-1.23
15	All other works of Bridge		Completion of all works of Bridge	1	476,511	476,511	2/1-1.23
Q	Overpass bridge at km120+571.30（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C8	Completion of each pile located on abutment or pier	64	7,444	476,416	2/1-1.25
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C8	Completion of the pile cap of each abutment or pier	8	35,692	285,536	2/1-1.25
3	Abutment body	Located on abutment C1,C8	Completion of each abutment body	2	69,060	138,120	2/1-1.25
4	Pier shaft	Located on piers C2, C3, C4, C5, C6, C7	Completion of each pier shaft	6	16,977	101,862	2/1-1.25
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	7	80,680	564,760	2/1-1.25
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	7	20,171	141,197	2/1-1.25
7	Bridge deck slab		Completion of the works	1	318,620	318,620	2/1-1.25

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
8	Waterproofing		Completion of the works	1	290,820	290,820	2/1-1.25
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.25
10	Expansion joints		Completion of installation of expansion joints	1	27,221	27,221	2/1-1.25
11	Drainage		Completion of the drainage work	1	2,830	2,830	2/1-1.25
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	61,712	61,712	2/1-1.25
13	Pavement		Completion of the pavement	1	67,447	67,447	2/1-1.25
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.25
R	Overpass bridge at km125+191.62（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C6	Completion of each pile located on abutment or pier	48	9,806	470,688	2/1-1.26
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C6	Completion of the pile cap of each abutment or pier	6	47,990	287,940	2/1-1.26
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	77,175	154,350	2/1-1.26
4	Pier shaft	Located on piers C2, C3, C4, C5	Completion of each pier shaft	4	16,643	66,572	2/1-1.26
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	85,793	428,965	2/1-1.26
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	5	21,450	107,250	2/1-1.26
7	Bridge deck slab		Completion of the works	1	238,440	238,440	2/1-1.26
8	Waterproofing		Completion of the works	1	218,910	218,910	2/1-1.26
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.26
10	Expansion joints		Completion of installation of expansion joints	1	27,356	27,356	2/1-1.26
11	Drainage		Completion of the drainage work	1	2,844	2,844	2/1-1.26
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	48,750	48,750	2/1-1.26
13	Pavement		Completion of the pavement	1	51,458	51,458	2/1-1.26
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.26
S	Overpass bridge at km126+976.09（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C6	Completion of each pile located on abutment or pier	48	5,938	285,024	2/1-1.27
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C6	Completion of the pile cap of each abutment or pier	6	43,030	258,180	2/1-1.27
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	69,414	138,828	2/1-1.27

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
4	Pier shaft	Located on piers C2, C3, C4, C5	Completion of each pier shaft	4	16,042	64,168	2/1-1.27
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	81,105	405,525	2/1-1.27
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	5	20,279	101,395	2/1-1.27
7	Bridge deck slab		Completion of the works	1	228,230	228,230	2/1-1.27
8	Waterproofing		Completion of the works	1	205,470	205,470	2/1-1.27
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.27
10	Expansion joints		Completion of installation of expansion joints	1	27,302	27,302	2/1-1.27
11	Drainage		Completion of the drainage work	1	2,838	2,838	2/1-1.27
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	46,060	46,060	2/1-1.27
13	Pavement		Completion of the pavement	1	48,940	48,940	2/1-1.27
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.27
T	Overpass bridge at km131+245.45（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C4	Completion of each pile located on abutment or pier	24	7,694	184,656	2/1-1.28
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C4	Completion of the pile cap of each abutment or pier	4	29,658	118,632	2/1-1.28
3	Abutment body	Located on abutment C1,C4	Completion of each abutment body	2	36,056	72,112	2/1-1.28
4	Pier shaft	Located on piers C2, C3	Completion of each pier shaft	2	18,488	36,976	2/1-1.28
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	3	65,243	195,729	2/1-1.28
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	3	16,313	48,939	2/1-1.28
7	Bridge deck slab		Completion of the works	1	100,820	100,820	2/1-1.28
8	Waterproofing		Completion of the works	1	102,750	102,750	2/1-1.28
9	Expansion joints		Completion of installation of expansion joints	1	27,383	27,383	2/1-1.28
10	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	27,130	27,130	2/1-1.28
11	Asphalt concrete layer		Completion of the asphalt concrete layer work	1	26,541	26,541	2/1-1.28
12	Demolish existing overpass structure		Demolish existing overpass structure	1	212,365	212,365	2/1-1.28
13	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.28
U	Overpass bridge at km135+113.00						

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1	Demolish existing overpass structure		Completion of demolishing of existing overpass structure	1	495,373	495,373	2/1-1.30
2	Pile of abutment and pier	Located on abutment and pier C1-C12	Completion of each pile located on abutment or pier	96	6,645	637,920	2/1-1.30
3	Pile Cap of abutment and pier	Located on abutment and pier C1-C12	Completion of the pile cap of each abutment or pier	12	41,627	499,524	2/1-1.30
4	Abutment body	Located on abutment C1,C12	Completion of each abutment body	2	78,987	157,974	2/1-1.30
5	Pier shaft	Located on piers C2-C11	Completion of each pier shaft	10	20,428	204,280	2/1-1.30
6	Cast in site concrete box girder	Cast in site	Completion of each span of girder	11	107,959	1,187,549	2/1-1.30
7	Bridge deck slab		Completion of the works	1	608,230	608,230	2/1-1.30
8	Waterproofing		Completion of the works	1	338,470	338,470	2/1-1.30
9	Bearings		Completion of installation of bearing	1	19,040	19,040	2/1-1.30
10	Expansion joints		Completion of installation of expansion joints	1	65,049	65,049	2/1-1.30
11	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	53,911	53,911	2/1-1.30
12	Drainage		Completion of the drainage work	1	16,387	16,387	2/1-1.30
13	Pavement		Completion of the pavement	1	102,700	102,700	2/1-1.30
14	All other works of Bridge		Completion of all works of Bridge	1	192	192	2/1-1.30
V	Overpass bridge at km139+003.02（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C8	Completion of each pile located on abutment or pier	64	6,756	432,384	2/1-1.31
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C8	Completion of the pile cap of each abutment or pier	8	37,423	299,384	2/1-1.31
3	Abutment body	Located on abutment C1,C8	Completion of each abutment body	2	72,696	145,392	2/1-1.31
4	Pier shaft	Located on piers C2-C7	Completion of each pier shaft	6	16,738	100,428	2/1-1.31
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	7	71,864	503,048	2/1-1.31
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	7	17,967	125,769	2/1-1.31
7	Bridge deck slab		Completion of the works	1	283,460	283,460	2/1-1.31
8	Waterproofing		Completion of the works	1	258,930	258,930	2/1-1.31
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.31
10	Expansion joints		Completion of installation of expansion joints	1	27,194	27,194	2/1-1.31
11	Drainage		Completion of the drainage work	1	2,827	2,827	2/1-1.31
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	53,696	53,696	2/1-1.31

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
13	Pavement		Completion of the pavement	1	58,956	58,956	2/1-1.31
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.31
W	Overpass bridge at km147+137.33（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C11	Completion of each pile located on abutment or pier	92	7,477	687,884	2/1-1.35
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C11	Completion of the pile cap of each abutment or pier	11	42,606	468,666	2/1-1.35
3	Abutment body	Located on abutment C1,C11	Completion of each abutment body	2	111,047	222,094	2/1-1.35
4	Pier shaft	Located on piers C2-C9	Completion of each pier shaft	9	15,375	138,375	2/1-1.35
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	10	89,916	899,160	2/1-1.35
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	10	22,481	224,810	2/1-1.35
7	Bridge deck slab		Completion of the works	1	491,770	491,770	2/1-1.35
8	Waterproofing		Completion of the works	1	453,160	453,160	2/1-1.35
9	Bearings		Completion of installation of bearing	1	13,260	13,260	2/1-1.35
10	Expansion joints		Completion of installation of expansion joints	1	27,329	27,329	2/1-1.35
11	Drainage		Completion of the drainage work	1	7,105	7,105	2/1-1.35
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	97,461	97,461	2/1-1.35
13	Pavement		Completion of the pavement	1	106,745	106,745	2/1-1.35
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.35
X	Overpass bridge at km152+282.46（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C8	Completion of each pile located on abutment or pier	64	6,936	443,904	2/1-1.36
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C8	Completion of the pile cap of each abutment or pier	8	38,374	306,992	2/1-1.36
3	Abutment body	Located on abutment C1,C8	Completion of each abutment body	2	82,412	164,824	2/1-1.36
4	Pier shaft	Located on piers C2-C7	Completion of each pier shaft	6	15,236	91,416	2/1-1.36
5	Cast in site concrete box girder	Cast in site	Completion of each span girder	7	96,826	677,782	2/1-1.36
6	Bridge deck slab		Completion of the works	1	445,510	445,510	2/1-1.36
7	Waterproofing		Completion of the works	1	197,070	197,070	2/1-1.36
8	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.36
9	Expansion joints		Completion of installation of expansion joints	1	27,086	27,086	2/1-1.36

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
10	Drainage		Completion of the drainage work	1	2,816	2,816	2/1-1.36
11	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	37,839	37,839	2/1-1.36
12	Pavement		Completion of the pavement	1	65,772	65,772	2/1-1.36
13	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.36
Y	Overpass bridge at km160+094.84（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C6	Completion of each pile located on abutment or pier	48	6,283	301,584	2/1-1.39
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C6	Completion of the pile cap of each abutment or pier	6	48,978	293,868	2/1-1.39
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	78,678	157,356	2/1-1.39
4	Pier shaft	Located on piers C2-C5	Completion of each pier shaft	4	17,305	69,220	2/1-1.39
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	116,440	582,200	2/1-1.39
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	5	29,111	145,555	2/1-1.39
7	Bridge deck slab		Completion of the works	1	285,010	285,010	2/1-1.39
8	Waterproofing		Completion of the works	1	265,100	265,100	2/1-1.39
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.39
10	Expansion joints		Completion of installation of expansion joints	1	27,356	27,356	2/1-1.39
11	Drainage		Completion of the drainage work	1	2,844	2,844	2/1-1.39
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	60,103	60,103	2/1-1.39
13	Pavement		Completion of the pavement	1	62,887	62,887	2/1-1.39
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.39
Z	Overpass bridge at km163+562.52（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C10	Completion of each pile located on abutment or pier	80	7,184	574,720	2/1-1.40
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C10	Completion of the pile cap of each abutment or pier	10	32,868	328,680	2/1-1.40
3	Abutment body	Located on abutment C1,C10	Completion of each abutment body	2	70,061	140,122	2/1-1.40
4	Pier shaft	Located on piers C2-C9	Completion of each pier shaft	8	17,849	142,792	2/1-1.40
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	9	86,155	775,395	2/1-1.40
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	9	21,540	193,860	2/1-1.40

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
7	Bridge deck slab		Completion of the works	1	433,090	433,090	2/1-1.40
8	Waterproofing		Completion of the works	1	399,500	399,500	2/1-1.40
9	Bearings		Completion of installation of bearing	1	13,260	13,260	2/1-1.40
10	Expansion joints		Completion of installation of expansion joints	1	27,275	27,275	2/1-1.40
11	Drainage		Completion of the drainage work	1	2,835	2,835	2/1-1.40
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	82,734	82,734	2/1-1.40
13	Pavement		Completion of the pavement	1	91,642	91,642	2/1-1.40
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.40
AA	Overpass bridge at km168+690.22（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C10	Completion of each pile located on abutment or pier	80	10,515	841,200	2/1-1.41
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C10	Completion of the pile cap of each abutment or pier	10	33,634	336,340	2/1-1.41
3	Abutment body	Located on abutment C1,C10	Completion of each abutment body	2	83,159	166,318	2/1-1.41
4	Pier shaft	Located on piers C2-C9	Completion of each pier shaft	8	23,247	185,976	2/1-1.41
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	9	92,622	833,598	2/1-1.41
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	9	23,157	208,413	2/1-1.41
7	Bridge deck slab		Completion of the works	1	607,400	607,400	2/1-1.41
8	Waterproofing		Completion of the works	1	251,120	251,120	2/1-1.41
9	Bearings		Completion of installation of bearing	1	13,260	13,260	2/1-1.41
10	Expansion joints		Completion of installation of expansion joints	1	54,930	54,930	2/1-1.41
11	Drainage		Completion of the drainage work	1	5,712	5,712	2/1-1.41
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	53,413	53,413	2/1-1.41
13	Pavement		Completion of the pavement	1	83,380	83,380	2/1-1.41
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.41
AB	Overpass bridge at km170+834.26（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C11	Completion of each pile located on abutment or pier	88	10,172	895,136	2/1-1.42
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C11	Completion of the pile cap of each abutment or pier	11	37,051	407,561	2/1-1.42
3	Abutment body	Located on abutment C1,C11	Completion of each abutment body	2	79,500	159,000	2/1-1.42

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
4	Pier shaft	Located on piers C2-C10	Completion of each pier shaft	9	18,214	163,926	2/1-1.42
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	10	84,020	840,200	2/1-1.42
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	10	21,006	210,060	2/1-1.42
7	Bridge deck slab		Completion of the works	1	451,010	451,010	2/1-1.42
8	Waterproofing		Completion of the works	1	427,730	427,730	2/1-1.42
9	Bearings		Completion of installation of bearing	1	13,260	13,260	2/1-1.42
10	Expansion joints		Completion of installation of expansion joints	1	30,242	30,242	2/1-1.42
11	Drainage		Completion of the drainage work	1	7,147	7,147	2/1-1.42
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	78,167	78,167	2/1-1.42
13	Pavement		Completion of the pavement	1	92,275	92,275	2/1-1.42
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.42
AC	Overpass bridge at km172+193.38（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C7	Completion of each pile located on abutment or pier	56	8,921	499,576	2/1-1.43
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C7	Completion of the pile cap of each abutment or pier	7	41,936	293,552	2/1-1.43
3	Abutment body	Located on abutment C1,C7	Completion of each abutment body	2	74,832	149,664	2/1-1.43
4	Pier shaft	Located on piers C2-C6	Completion of each pier shaft	5	17,213	86,065	2/1-1.43
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	6	82,186	493,116	2/1-1.43
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	6	20,549	123,294	2/1-1.43
7	Bridge deck slab		Completion of the works	1	276,290	276,290	2/1-1.43
8	Waterproofing		Completion of the works	1	253,540	253,540	2/1-1.43
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.43
10	Expansion joints		Completion of installation of expansion joints	1	27,519	27,519	2/1-1.43
11	Drainage		Completion of the drainage work	1	2,861	2,861	2/1-1.43
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	54,406	54,406	2/1-1.43
13	Pavement		Completion of the pavement	1	58,775	58,775	2/1-1.43
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.43
AD	Overpass bridge at km177+329.42						

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1	Demolish existing overpass structure		Completion of demolishing existing overpass structure	1	503,686	503,686	2/1-1.47
2	Pile of abutment and pier	Located on abutment and pier C1-C3	Completion of each pile located on abutment or pier	52	8,429	438,308	2/1-1.47
3	Pile Cap of abutment and pier	Located on abutment and pier C1-C3	Completion of the pile cap of each abutment or pier	3	361,066	1,083,198	2/1-1.47
4	Abutment body	Located on abutment C1,C3	Completion of each abutment body	2	127,370	254,740	2/1-1.47
5	Pier shaft	Located on piers C2	Completion of each pier shaft	1	9,704	9,704	2/1-1.47
6	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	2	111,382	222,764	2/1-1.47
7	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	2	27,847	55,694	2/1-1.47
8	Bridge deck slab		Completion of the works	1	42,984	42,984	2/1-1.47
9	Waterproofing		Completion of the works	1	97,030	97,030	2/1-1.47
10	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	24,487	24,487	2/1-1.47
11	Pavement		Completion of the pavement	1	20,118	20,118	2/1-1.47
12	Retaining wall		Completion of the retaining wall	1	789,445	789,445	2/1-1.47
13	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.47
AE	Railway gallery at km 177+623.9						
1	Foundation		Completion of the works	1	5,367,040	5,367,040	2/1-1.48
2	Pier shaft and wall		Completion of the works	1	1,791,650	1,791,650	2/1-1.48
3	Bridge deck slab		Completion of the works	1	1,143,870	1,143,870	2/1-1.48
4	Waterproofing		Completion of the works	1	238,800	238,800	2/1-1.48
5	Elastic mat for noise protection and vibration		Completion of the works	1	15,997	15,997	2/1-1.48
6	Railing and fence of steel mesh		Completion of the works	1	24,053	24,053	2/1-1.48
7	Testing of Bridge		Completion of the works	1	19,151	19,151	2/1-1.48
AF	Overpass bridge at km178+455.85						
1	Pile of abutment	Located on abutment C1,C2	Completion of each pile located on abutment	10	6,759	67,590	2/1-1.49
2	Pile Cap of abutment	Located on abutment C1,C2	Completion of the pile cap of each abutment	2	77,571	155,142	2/1-1.49
3	Abutment body	Located on abutment C1,C2	Completion of each abutment body	2	62,722	125,444	2/1-1.49

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
4	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	1	155,426	155,426	2/1-1.49
5	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	1	38,857	38,857	2/1-1.49
6	Bridge deck slab		Completion of the works	1	105,535	105,535	2/1-1.49
7	Waterproofing		Completion of the works	1	97,750	97,750	2/1-1.49
8	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	48,423	48,423	2/1-1.49
9	Asphalt concrete layer		Completion of the asphalt concrete layer work	1	18,502	18,502	2/1-1.49
10	Expansion joints		Completion of installation of expansion joints	1	32,015	32,015	2/1-1.49
11	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.49
AG	Overpass bridge at km179+395.83（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C8	Completion of each pile located on abutment or pier	64	8,103	518,592	2/1-1.51
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C8	Completion of the pile cap of each abutment or pier	8	40,450	323,600	2/1-1.51
3	Abutment body	Located on abutment C1,C8	Completion of each abutment body	2	74,779	149,558	2/1-1.51
4	Pier shaft	Located on piers C2-C7	Completion of each pier shaft	6	17,480	104,880	2/1-1.51
5	Cast in site concrete box girder	Cast in site	Completion of each span of girder in left side and/or right side of bridge	7	101,827	712,789	2/1-1.51
6	Bridge deck slab		Completion of the works	1	325,220	325,220	2/1-1.51
7	Waterproofing		Completion of the works	1	297,970	297,970	2/1-1.51
8	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.51
9	Expansion joints		Completion of installation of expansion joints	1	27,221	27,221	2/1-1.51
10	Drainage		Completion of the drainage work	1	2,830	2,830	2/1-1.51
11	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	63,092	63,092	2/1-1.51
12	Pavement		Completion of the pavement	1	69,058	69,058	2/1-1.51
13	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.51
AH	Overpass bridge at km180+969.60（width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C10	Completion of each pile located on abutment or pier	80	10,016	801,280	2/1-1.52
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C10	Completion of the pile cap of each abutment or pier	8	45,227	361,816	2/1-1.52
3	Abutment body	Located on abutment C1,C10	Completion of each abutment body	2	76,321	152,642	2/1-1.52
4	Pier shaft	Located on piers C2-C9	Completion of each pier shaft	6	23,779	142,674	2/1-1.52

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
5	Cast in site concrete box girder	Cast in site	Completion of each span of girder in left side and/or right side of bridge	9	101,200	910,800	2/1-1.52
6	Bridge deck slab		Completion of the works	1	408,500	408,500	2/1-1.52
7	Waterproofing		Completion of the works	1	381,150	381,150	2/1-1.52
8	Bearings		Completion of installation of bearing	1	13,260	13,260	2/1-1.52
9	Expansion joints		Completion of installation of expansion joints	1	27,167	27,167	2/1-1.52
10	Drainage		Completion of the drainage work	1	5,650	5,650	2/1-1.52
11	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	77,346	77,346	2/1-1.52
12	Pavement		Completion of the pavement	1	85,892	85,892	2/1-1.52
13	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.52
AI	Overpass bridge at km184+258.47 （width is 9m,addtional width will be subsequent work)						
1	Pile of abutment and pier	Located on abutment and pier C1-C6	Completion of each pile located on abutment or pier	48	8,813	423,024	2/1-1.53
2	Pile Cap of abutment and pier	Located on abutment and pier C1-C6	Completion of the pile cap of each abutment or pier	6	46,829	280,974	2/1-1.53
3	Abutment body	Located on abutment C1,C6	Completion of each abutment body	2	63,813	127,626	2/1-1.53
4	Pier shaft	Located on piers C2-C5	Completion of each pier shaft	4	14,539	58,156	2/1-1.53
5	Prefabricated main girders made of prestressed concrete	Precast main girders made of pre-stressed concrete	Completion of prefabrication of girders for each span	5	81,609	408,045	2/1-1.53
6	Installation of prestressed concrete girders	Installation of prestressed concrete girders	Completion of installation of each span	5	20,403	102,015	2/1-1.53
7	Bridge deck slab		Completion of the works	1	227,270	227,270	2/1-1.53
8	Waterproofing		Completion of the works	1	207,560	207,560	2/1-1.53
9	Bearings		Completion of installation of bearing	1	8,840	8,840	2/1-1.53
10	Expansion joints		Completion of installation of expansion joints	1	27,248	27,248	2/1-1.53
11	Drainage		Completion of the drainage work	1	2,833	2,833	2/1-1.53
12	Railing and fence of steel mesh		Completion of railing and fence of steel mesh	1	45,916	45,916	2/1-1.53
13	Pavement		Completion of the pavement	1	48,760	48,760	2/1-1.53
14	All other works of Bridge		Completion of all works of Bridge	1	205	205	2/1-1.53
AG	Underpass at railway						
1	Underpass at km 97+034.94						
1-1	Preliminary works		Completion of the works	1	62,360	62,360	2/1-1.13
1-2	Plain and reinforced concrete		Completion of the works	1	2,858,185	2,858,185	2/1-1.13
1-3	Reinforcedment Works		Completion of the works	1	1,704,518	1,704,518	2/1-1.13

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1-4	Waterproofing		Completion of the works	1	571,637	571,637	2/1-1.13
2	Underpass at km 113+327.64						
2-1	Preliminary works		Completion of the works	1	46,184	46,184	2/1-1.21
2-2	Plain and reinforced concrete		Completion of the works	1	2,232,234	2,232,234	2/1-1.21
2-3	Reinforcedment Works		Completion of the works	1	1,108,420	1,108,420	2/1-1.21
2-4	Waterproofing		Completion of the works	1	461,842	461,842	2/1-1.21
3	Underpass at km 118+708.31						
3-1	Preliminary works		Completion of the works	1	106,759	106,759	2/1-1.24
3-2	Plain and reinforced concrete		Completion of the works	1	1,307,800	1,307,800	2/1-1.24
3-3	Reinforcedment Works		Completion of the works	1	880,763	880,763	2/1-1.24
3-4	Waterproofing		Completion of the works	1	373,657	373,657	2/1-1.24
4	Underpass at km 142+055.50						
4-1	Preliminary works		Completion of the works	1	95,768	95,768	2/1-1.32
4-2	Plain and reinforced concrete		Completion of the works	1	2,489,978	2,489,978	2/1-1.32
4-3	Reinforcedment Works		Completion of the works	1	1,723,831	1,723,831	2/1-1.32
4-4	Waterproofing		Completion of the works	1	478,842	478,842	2/1-1.32
5	Underpass at km 142+712.26						2/1-1.33
5-1	Preliminary works		Completion of the works	1	48,446	48,446	2/1-1.33
5-2	Plain and reinforced concrete		Completion of the works	1	755,192	755,192	2/1-1.33
5-3	Reinforcedment Works		Completion of the works	1	450,265	450,265	2/1-1.33
5-4	Waterproofing		Completion of the works	1	170,987	170,987	2/1-1.33
6	Underpass at km 143+729,22						
6-1	Preliminary works		Completion of the works	1	79,084	79,084	2/1-1.34
6-2	Plain and reinforced concrete		Completion of the works	1	4,942,751	4,942,751	2/1-1.34
6-3	Reinforcedment Works		Completion of the works	1	843,563	843,563	2/1-1.34
6-4	Waterproofing		Completion of the works	1	724,937	724,937	2/1-1.34
7	Underpass at km 156+453,73						
7-1	Preliminary works		Completion of the works	1	85,516	85,516	2/1-1.37
7-2	Plain and reinforced concrete		Completion of the works	1	4,008,570	4,008,570	2/1-1.37
7-3	Reinforcedment Works		Completion of the works	1	582,579	582,579	2/1-1.37
7-4	Waterproofing		Completion of the works	1	668,095	668,095	2/1-1.37
8	Underpass at km 157+443.73						
8-1	Preliminary works		Completion of the works	1	81,788	81,788	2/1-1.38
8-2	Plain and reinforced concrete		Completion of the works	1	4,157,553	4,157,553	2/1-1.38
8-3	Reinforcedment Works		Completion of the works	1	1,826,597	1,826,597	2/1-1.38

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
8-4	Waterproofing		Completion of the works	1	749,723	749,723	2/1-1.38
9	Underpass at km 174+515.35						
9-1	Preliminary works		Completion of the works	1	88,204	88,204	2/1-1.44
9-2	Plain and reinforced concrete		Completion of the works	1	3,822,187	3,822,187	2/1-1.44
9-3	Reinforcedment Works		Completion of the works	1	2,410,918	2,410,918	2/1-1.44
9-4	Waterproofing		Completion of the works	1	1,029,050	1,029,050	2/1-1.44
10	Underpass at km 177+857.22						
10-1	Preliminary works		Completion of the works	1	152,545	152,545	2/1-1.50
10-2	Plain and reinforced concrete		Completion of the works	1	2,266,386	2,266,386	2/1-1.50
10-3	Reinforcedment Works		Completion of the works	1	1,416,491	1,416,491	2/1-1.50
10-4	Waterproofing		Completion of the works	1	523,012	523,012	2/1-1.50
AK	Culvert						
1	Culvert at km 82+639,61		Completion of half of the culvert box	2	188,330	376,660	2/1-2
2	Culvert at km 83+567,31		Completion of half of the culvert box	2	135,715	271,430	2/1-2
3	Culvert at km 86+748,33		Completion of half of the culvert box	2	178,252	356,504	2/1-2
4	Culvert at km 89+790,89		Completion of half of the culvert box	2	74,156	148,312	2/1-2
5	Culvert at km 92+266,63		Completion of half of the culvert box	2	90,116	180,232	2/1-2
6	Culvert at km 95+376,44		Completion of half of the culvert box	2	77,383	154,766	2/1-2
7	Culvert at km 98+213,09		Completion of half of the culvert box	2	83,101	166,202	2/1-2
8	Culvert at km 99+339,76		Completion of half of the culvert box	2	86,608	173,216	2/1-2
9	Culvert at km 103+602,05		Completion of half of the culvert box	2	139,223	278,446	2/1-2
10	Culvert at km 105+31,00		Completion of half of the culvert box	2	93,624	187,248	2/1-2
11	Culvert at km 110+122,59		Completion of half of the culvert box	2	107,654	215,308	2/1-2
12	Culvert at km 111+253,407		Completion of half of the culvert box	2	69,070	138,140	2/1-2
13	Culvert at km 111+817,38		Completion of half of the culvert box	2	156,761	313,522	2/1-2
14	Culvert at km 113+547,78		Completion of half of the culvert box	2	269,005	538,010	2/1-2
15	Culvert at km 114+579,38		Completion of half of the culvert box	2	209,375	418,750	2/1-2
16	Culvert at km 0+569,88		Completion of half of the culvert box	2	65,563	131,126	2/1-2
17	Culvert at km 163+413,36		Completion of half of the culvert box	2	128,700	257,400	2/1-2
18	Culvert at km 173+654,52		Completion of half of the culvert box	2	118,177	236,354	2/1-2
19	Culvert at km 178+103,00		Completion of half of the culvert box	2	97,131	194,262	2/1-2
20	Culvert at km 182+000		Completion of half of the culvert box	2	79,593	159,186	2/1-2
21	Culvert at km 182+200		Completion of half of the culvert box	2	79,593	159,186	2/1-2
22	Culvert at km 182+400		Completion of half of the culvert box	2	79,593	159,186	2/1-2

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
23	Culvert at km 182+600		Completion of half of the culvert box	2	79,593	159,186	2/1-2
24	Culvert at km 182+800		Completion of half of the culvert box	2	79,593	159,186	2/1-2
25	Culvert at km 183+200		Completion of half of the culvert box	2	79,593	159,186	2/1-2
26	Culvert at km 183+600		Completion of half of the culvert box	2	79,593	159,186	2/1-2
27	Culvert at km 183+800		Completion of half of the culvert box	2	79,593	159,186	2/1-2
28	Culvert at km 184+400		Completion of half of the culvert box	2	79,593	159,186	2/1-2
29	Culvert at km 184+600		Completion of half of the culvert box	2	79,593	159,186	2/1-2
AL	Subway						
1	Extension of subway in Novi Sad station						
1-1	Preliminary works		Completion of the works	1	39,684	39,684	2/9.1.2
1-2	Plain and reinforced concrete		Completion of the works	1	491,535	491,535	2/9.1.2
1-3	Reinforcedment Works		Completion of the works	1	253,238	253,238	2/9.1.2
1-4	Waterproofing		Completion of the works	1	55,103	55,103	2/9.1.2
2	Subway in TPS Novi Sad						
2-1	Preliminary works		Completion of the works	1	45,590	45,590	2/9.1.6
2-2	Plain and reinforced concrete		Completion of the works	1	536,358	536,358	2/9.1.6
2-3	Reinforcedment Works		Completion of the works	1	268,179	268,179	2/9.1.6
2-4	Waterproofing		Completion of the works	1	43,803	43,803	2/9.1.6
3	Subway in Kisač railway station						
3-1	Preliminary works		Completion of the works	1	39,191	39,191	2/9.4.2
3-2	Plain and reinforced concrete		Completion of the works	1	461,076	461,076	2/9.4.2
3-3	Reinforcedment Works		Completion of the works	1	230,538	230,538	2/9.4.2
3-4	Waterproofing		Completion of the works	1	37,655	37,655	2/9.4.2
4	Subway in Stepanovićevo stopping place						
4-1	Preliminary works		Completion of the works	1	39,454	39,454	2/9.5.2
4-2	Plain and reinforced concrete		Completion of the works	1	464,160	464,160	2/9.5.2
4-3	Reinforcedment Works		Completion of the works	1	232,080	232,080	2/9.5.2
4-4	Waterproofing		Completion of the works	1	37,906	37,906	2/9.5.2
5	Subway in Zmajevo railway station						
5-1	Preliminary works		Completion of the works	1	41,850	41,850	2/9.6.2
5-2	Plain and reinforced concrete		Completion of the works	1	492,348	492,348	2/9.6.2

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
5-3	Reinforcedment Works		Completion of the works	1	246,174	246,174	2/9.6.2
5-4	Waterproofing		Completion of the works	1	40,208	40,208	2/9.6.2
6	Subway in Vrbas railway station						
6-1	Preliminary works		Completion of the works	1	29,906	29,906	2/9.7.3
6-2	Plain and reinforced concrete		Completion of the works	1	351,840	351,840	2/9.7.3
6-3	Reinforcedment Works		Completion of the works	1	175,920	175,920	2/9.7.3
6-4	Waterproofing		Completion of the works	1	28,734	28,734	2/9.7.3
7	Subway in Lovćenac railway station						
7-1	Preliminary works		Completion of the works	1	41,037	41,037	2/9.8.2
7-2	Plain and reinforced concrete		Completion of the works	1	482,790	482,790	2/9.8.2
7-3	Reinforcedment Works		Completion of the works	1	241,395	241,395	2/9.8.2
7-4	Waterproofing		Completion of the works	1	39,428	39,428	2/9.8.2
8	Subway in Bačka Topola railway station						
8-1	Preliminary works		Completion of the works	1	39,380	39,380	2/9.9.3
8-2	Plain and reinforced concrete		Completion of the works	1	463,296	463,296	2/9.9.3
8-3	Reinforcedment Works		Completion of the works	1	231,648	231,648	2/9.9.3
8-4	Waterproofing		Completion of the works	1	37,836	37,836	2/9.9.3
9	Military ramp in Bačka Topola railway station						
9-1	Preliminary works		Completion of the works	1	30,269	30,269	2/9.9.6
9-2	Plain and reinforced concrete		Completion of the works	1	356,100	356,100	2/9.9.6
9-3	Reinforcedment Works		Completion of the works	1	178,050	178,050	2/9.9.6
9-4	Waterproofing		Completion of the works	1	29,082	29,082	2/9.9.6
10	Subway in Žednik railway station						
10-1	Preliminary works		Completion of the works	1	39,089	39,089	2/9.10.2
10-2	Plain and reinforced concrete		Completion of the works	1	459,870	459,870	2/9.10.2
10-3	Reinforcedment Works		Completion of the works	1	229,935	229,935	2/9.10.2
10-4	Waterproofing		Completion of the works	1	37,556	37,556	2/9.10.2
11	Subway in Naumovićevo railway station						
11-1	Preliminary works		Completion of the works	1	39,420	39,420	2/9.11.2
11-2	Plain and reinforced concrete		Completion of the works	1	463,770	463,770	2/9.11.2
11-3	Reinforcedment Works		Completion of the works	1	231,885	231,885	2/9.11.2
11-4	Waterproofing		Completion of the works	1	37,875	37,875	2/9.11.2

4. Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
12	Subway in Subotica passenger railway station						
12-1	Preliminary works		Completion of the works	1	118,713	118,713	2/9.12.3
12-2	Plain and reinforced concrete		Completion of the works	1	1,396,620	1,396,620	2/9.12.3
12-3	Reinforcedment Works		Completion of the works	1	698,310	698,310	2/9.12.3
12-4	Waterproofing		Completion of the works	1	114,057	114,057	2/9.12.3
13	Service subway in Subotica freight railway station						
13-1	Preliminary works		Completion of the works	1	69,406	69,406	2/9.12.9
13-2	Plain and reinforced concrete		Completion of the works	1	816,540	816,540	2/9.12.9
13-3	Reinforcedment Works		Completion of the works	1	408,270	408,270	2/9.12.9
13-4	Waterproofing		Completion of the works	1	66,684	66,684	2/9.12.9
AM	Poles for GSM-R system						
1	Tower 36 m	Including earth works, steel structure,concrete and reinforcement concrete,insulation,tinsmith and other decoration	Completion of installation of each tower	15	79,907	1,198,605	2/8
2	Tower 42 m	Including earth works, steel structure,concrete and reinforcement concrete,insulation,tinsmith and other decoration	Completion of installation of each tower	4	99,757	399,028	2/8
3	Tower 20 m	Including earth works, steel structure,concrete and reinforcement concrete,insulation,tinsmith and other decoration	Completion of installation of each tower	3	36,884	110,652	2/8
Summary(USD)						**253,938,256**	

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Overpass at km 84+809.19 of the railway line						
1	Preliminary works		Completion of the works	1	4,354	4,354	2/3-1.1
2	Substructure-earthworks		Completion of the works	1	264,795	264,795	2/3-1.1
3	Superstructure-pavement structure		Completion of the works	1	72,075	72,075	2/3-1.1
4	Dewatering		Completion of the works	1	4,279	4,279	2/3-1.1
B	Access road to Rumenka location						
1	Preliminary works		Completion of the works	1	20,051	20,051	2/3-1.1
2	Substructure-earthworks		Completion of the works	1	190,557	190,557	2/3-1.1
3	Superstructure-pavement structure		Completion of the works	1	154,067	154,067	2/3-1.1
4	Dewatering		Completion of the works	1	9,251	9,251	2/3-1.1
C	Access road to Sajlovo location						
1	Preliminary works		Completion of the works	1	2,524	2,524	2/3-1.1
2	Substructure-earthworks		Completion of the works	1	49,955	49,955	2/3-1.1
3	Superstructure-pavement structure		Completion of the works	1	46,495	46,495	2/3-1.1
4	Dewatering		Completion of the works	1	1,176	1,176	2/3-1.1
5	Service road		Completion of the works	1	34,868	34,868	2/3-1.1
D	Overpass at km 89+315.15 of the railway line						
1	Preliminary works		Completion of the works	1	22,774	22,774	2/3-1.2
2	Substructure-earthworks		Completion of the works	1	553,344	553,344	2/3-1.2
3	Superstructure-pavement structure		Completion of the works	1	274,283	274,283	2/3-1.2
4	Dewatering		Completion of the works	1	5,612	5,612	2/3-1.2

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
E	Road of subway at km 89+984.34 of the railway line						
1	Preliminary works		Completion of the works	1	3,224	3,224	2/3-1.2
2	Substructure-earthworks		Completion of the works	1	13,540	13,540	2/3-1.2
3	Superstructure-pavement structure		Completion of the works	1	13,746	13,746	2/3-1.2
4	Dewatering		Completion of the works	1	8,546	8,546	2/3-1.2
5	Access road to the Station building "KISAČ"		Completion of the works	1	49,523	49,523	2/3-1.2
6	Access road to the SP "KISAČ"		Completion of the works	1	12,536	12,536	2/3-1.2
7	Service road		Completion of the works	1	29,549	29,549	2/3-1.2
F	Overpass at km 92+768.08 of the railway line						
1	Preliminary works		Completion of the works	1	6,264	6,264	2/3-1.3
2	Substructure-earthworks		Completion of the works	1	307,680	307,680	2/3-1.3
3	Superstructure-pavement structure		Completion of the works	1	101,992	101,992	2/3-1.3
4	Dewatering		Completion of the works	1	5,271	5,271	2/3-1.3
5	Service road		Completion of the works	1	24,176	24,176	2/3-1.3
G	Overpass at km 95+739.56 of the railway line						
1	Preliminary works		Completion of the works	1	4,317	4,317	2/3-1.4
2	Substructure-earthworks		Completion of the works	1	297,508	297,508	2/3-1.4
3	Superstructure-pavement structure		Completion of the works	1	74,625	74,625	2/3-1.4
4	Dewatering		Completion of the works	1	4,556	4,556	2/3-1.4
5	Service road		Completion of the works	1	24,176	24,176	2/3-1.4
H	Grade separation of pedestrian-bicycle path - subway at km 97+027.32 of the railway line						

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Preliminary works		Completion of the works	1	8,399	8,399	2/3-1.5
2	Substructure-earthworks		Completion of the works	1	9,977	9,977	2/3-1.5
3	Superstructure-pavement structure		Completion of the works	1	74,319	74,319	2/3-1.5
4	Dewatering		Completion of the works	1	13,592	13,592	2/3-1.5
5	Access road to the builing for signalling and telecommunications equipment		Completion of the works	1	65,366	65,366	2/3-1.5
6	Service road		Completion of the works	1	35,029	35,029	2/3-1.5
I	Overpass at km 98+149.45 of the railway line						
1	Preliminary works		Completion of the works	1	12,041	12,041	2/3-1.6
2	Substructure-earthworks		Completion of the works	1	324,685	324,685	2/3-1.6
3	Superstructure-pavement structure		Completion of the works	1	154,686	154,686	2/3-1.6
4	Dewatering		Completion of the works	1	15,348	15,348	2/3-1.6
5	Connections to state road		Completion of the works	1	44,771	44,771	2/3-1.6
J	Overpass at km 101+132.33 of the railway line						
1	Preliminary works		Completion of the works	1	8,687	8,687	2/3-1.7
2	Substructure-earthworks		Completion of the works	1	348,304	348,304	2/3-1.7
3	Superstructure-pavement structure		Completion of the works	1	95,612	95,612	2/3-1.7
4	Dewatering		Completion of the works	1	5,464	5,464	2/3-1.7
5	Service road		Completion of the works	1	9,750	9,750	2/3-1.7
K	Overpass at km 102+309.98 of the railway line						
1	Preliminary works		Completion of the works	1	68,324	68,324	2/3-1.8
2	Substructure-earthworks		Completion of the works	1	207,777	207,777	2/3-1.8

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Superstructure-pavement structure		Completion of the works	1	149,817	149,817	2/3-1.8
4	Dewatering		Completion of the works	1	21,848	21,848	2/3-1.8
L	Detour of municipal road Kucura – Zmajevo						
1	Preliminary works		Completion of the works	1	47,739	47,739	2/3-1.8
2	Substructure-earthworks		Completion of the works	1	271,421	271,421	2/3-1.8
3	Superstructure-pavement structure		Completion of the works	1	196,998	196,998	2/3-1.8
M	Service road						
1	Preliminary works		Completion of the works	1	19,824	19,824	2/3-1.8
2	Substructure-earthworks		Completion of the works	1	109,558	109,558	2/3-1.8
3	Superstructure-pavement structure		Completion of the works	1	79,298	79,298	2/3-1.8
4	Parking along the Station building "ZMAJEVO"		Completion of the works	1	10,100	10,100	2/3-1.8
5	Access road to the SPN "ZMAJEVO" and access road to the SI and TC building		Completion of the works	1	11,915	11,915	2/3-1.8
N	Overpass at km 105+797.12 of the railway line						
1	Preliminary works		Completion of the works	1	8,088	8,088	2/3-1.9
2	Substructure-earthworks		Completion of the works	1	344,975	344,975	2/3-1.9
3	Superstructure-pavement structure		Completion of the works	1	70,793	70,793	2/3-1.9
4	Dewatering		Completion of the works	1	5,733	5,733	2/3-1.9
5	Service road		Completion of the works	1	24,176	24,176	2/3-1.9
O	Overpass at km 108+115.69 of the railway line.						
1	Substructure-earthworks		Completion of the works	1	350,183	350,183	2/3-1.10
2	Superstructure-pavement structure		Completion of the works	1	66,913	66,913	2/3-1.10

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Dewatering		Completion of the works	1	5,741	5,741	2/3-1.10
P	Access road to the building for telecommunications equipment						
1	Substructure-earthworks		Completion of the works	1	36,368	36,368	2/3-1.10
2	Superstructure-pavement structure		Completion of the works	1	36,663	36,663	2/3-1.10
3	Dewatering		Completion of the works	1	169	169	2/3-1.10
4	Service road		Completion of the works	1	21,490	21,490	2/3-1.10
Q	Underpass at km 113+327.64 of the railway line						
1	Preliminary works		Completion of the works	1	19,041	19,041	2/3-1.11
2	Substructure-earthworks		Completion of the works	1	46,607	46,607	2/3-1.11
3	Superstructure-pavement structure		Completion of the works	1	124,466	124,466	2/3-1.11
4	Dewatering		Completion of the works	1	6,608	6,608	2/3-1.11
R	Access road to Vrbas station						
1	Preliminary works		Completion of the works	1	9,181	9,181	2/3-1.11
2	Substructure-earthworks		Completion of the works	1	164,055	164,055	2/3-1.11
3	Superstructure-pavement structure		Completion of the works	1	173,521	173,521	2/3-1.11
4	Dewatering		Completion of the works	1	37,071	37,071	2/3-1.11
S	Underpass at km 118+708.31 of the railway line						
1	Preliminary works		Completion of the works	1	7,768	7,768	2/3-1.12
2	Substructure-earthworks		Completion of the works	1	167,099	167,099	2/3-1.12
3	Superstructure-pavement structure		Completion of the works	1	168,858	168,858	2/3-1.12
4	Dewatering		Completion of the works	1	5,641	5,641	2/3-1.12

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
T	Overpass at km 120+571.30 of the railway line						
1	Preliminary works		Completion of the works	1	4,198	4,198	2/3-1.13
2	Substructure-earthworks		Completion of the works	1	264,875	264,875	2/3-1.13
3	Superstructure-pavement structure		Completion of the works	1	69,489	69,489	2/3-1.13
4	Dewatering		Completion of the works	1	7,223	7,223	2/3-1.13
U	Access road to the building for telecommunications equipment						
1	Preliminary works		Completion of the works	1	167	167	2/3-1.13
2	Substructure-earthworks		Completion of the works	1	61,010	61,010	2/3-1.13
3	Superstructure-pavement structure		Completion of the works	1	36,527	36,527	2/3-1.13
4	Service road		Completion of the works	1	13,431	13,431	2/3-1.13
V	Overpass at km 125+191.62 of the railway line						
1	Preliminary works		Completion of the works	1	5,178	5,178	2/3-1.14
2	Substructure-earthworks		Completion of the works	1	347,442	347,442	2/3-1.14
3	Superstructure-pavement structure		Completion of the works	1	67,790	67,790	2/3-1.14
4	Dewatering		Completion of the works	1	5,540	5,540	2/3-1.14
5	Service road		Completion of the works	1	25,271	25,271	2/3-1.14
W	Overpass at km 126+976.11 of the railway line						
1	Preliminary works		Completion of the works	1	8,382	8,382	2/3-1.15
2	Substructure-earthworks		Completion of the works	1	224,360	224,360	2/3-1.15
3	Superstructure-pavement structure		Completion of the works	1	104,054	104,054	2/3-1.15
4	Dewatering		Completion of the works	1	4,033	4,033	2/3-1.15

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
X	Access road at km 129+495.66 of the railway line						
1	Preliminary works		Completion of the works	1	71,918	71,918	2/3-1.16
2	Substructure-earthworks		Completion of the works	1	772,486	772,486	2/3-1.16
3	Superstructure-pavement structure		Completion of the works	1	516,578	516,578	2/3-1.16
4	Dewatering		Completion of the works	1	4,916	4,916	2/3-1.16
5	Access road to the SP "LOVĆENAC"		Completion of the works	1	8,830	8,830	2/3-1.16
Y	Overpass at km 131+245.45 of the railway line						
1	Preliminary works		Completion of the works	1	2,451	2,451	2/3-1.17
2	Substructure-earthworks		Completion of the works	1	43,219	43,219	2/3-1.17
3	Superstructure-pavement structure		Completion of the works	1	29,771	29,771	2/3-1.17
4	Service road		Completion of the works	1	6,467	6,467	2/3-1.17
Z	Local road at km 132+007.75 of the railway line						
1	Preliminary works		Completion of the works	1	1,716	1,716	2/3-1.18
2	Substructure-earthworks		Completion of the works	1	22,161	22,161	2/3-1.18
3	Superstructure-pavement structure		Completion of the works	1	25,356	25,356	2/3-1.18
AA	Overpass at km 135+112.95 of the railway line						
1	Preliminary works		Completion of the works	1	45,296	45,296	2/3-1.19
2	Substructure-earthworks		Completion of the works	1	541,232	541,232	2/3-1.19
3	Superstructure-pavement structure		Completion of the works	1	265,658	265,658	2/3-1.19
4	Dewatering		Completion of the works	1	21,677	21,677	2/3-1.19
AB	Access road to the building for telecommunications equipment						

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Preliminary works		Completion of the works	1	2,044	2,044	2/3-1.19
2	Substructure-earthworks		Completion of the works	1	33,184	33,184	2/3-1.19
3	Superstructure-pavement structure		Completion of the works	1	27,170	27,170	2/3-1.19
4	Dewatering		Completion of the works	1	177	177	2/3-1.19
5	MUNICIPAL road		Completion of the works	1	93,125	93,125	2/3-1.19
6	Service road– MACADAM		Completion of the works	1	32,235	32,235	2/3-1.19
AC	Overpass at km 139+003.02 of the railway line						
1	Preliminary works		Completion of the works	1	11,214	11,214	2/3-1.20
2	Substructure-earthworks		Completion of the works	1	336,215	336,215	2/3-1.20
3	Superstructure-pavement structure		Completion of the works	1	107,206	107,206	2/3-1.20
4	Dewatering		Completion of the works	1	4,977	4,977	2/3-1.20
5	Service road		Completion of the works	1	13,431	13,431	2/3-1.20
AD	Underpass at km 142+055.50 of the railway line						
1	Preliminary works		Completion of the works	1	7,371	7,371	2/3-1.21
2	Substructure-earthworks		Completion of the works	1	54,407	54,407	2/3-1.21
3	Superstructure-pavement structure		Completion of the works	1	135,079	135,079	2/3-1.21
4	Dewatering		Completion of the works	1	9,670	9,670	2/3-1.21
5	Service road 1		Completion of the works	1	45,515	45,515	2/3-1.21
6	Service road 2		Completion of the works	1	36,478	36,478	2/3-1.21
7	Service road 3		Completion of the works	1	53,644	53,644	2/3-1.21
8	Service road 4		Completion of the works	1	71,944	71,944	2/3-1.21

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
AE	subway at km 142+713.52 of the railway line						
1	Preliminary works		Completion of the works	1	3,721	3,721	2/3-1.22
2	Substructure-earthworks		Completion of the works	1	11,762	11,762	2/3-1.22
3	Superstructure-pavement structure		Completion of the works	1	25,662	25,662	2/3-1.22
AF	Underpass at km 143+729.21 of the railway line						
1	Preliminary works		Completion of the works	1	21,211	21,211	2/3-1.23
2	Substructure-earthworks		Completion of the works	1	70,380	70,380	2/3-1.23
3	Superstructure-pavement structure		Completion of the works	1	197,236	197,236	2/3-1.23
4	Dewatering		Completion of the works	1	8,864	8,864	2/3-1.23
5	MLINSKA street		Completion of the works	1	87,873	87,873	2/3-1.23
6	CANTAVIRSKA street		Completion of the works	1	138,368	138,368	2/3-1.23
7	BOSKA BUHE street		Completion of the works	1	89,408	89,408	2/3-1.23
8	Access road to the SPN "BAČKA		Completion of the works	1	9,455	9,455	2/3-1.23
9	Access road to the railway location		Completion of the works	1	574,479	574,479	2/3-1.23
AG	Overpass at km 147+137.33 of the railway line						
1	Preliminary works		Completion of the works	1	17,343	17,343	2/3-1.24
2	Substructure-earthworks		Completion of the works	1	685,671	685,671	2/3-1.24
3	Superstructure-pavement structure		Completion of the works	1	100,093	100,093	2/3-1.24
4	Dewatering		Completion of the works	1	4,835	4,835	2/3-1.24
5	Retaining wall		Completion of the works	1	1,067,062	1,067,062	2/3-1.24

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Service road 1		Completion of the works	1	23,669	23,669	2/3-1.24
7	Service road 2		Completion of the works	1	161,753	161,753	2/3-1.24
AH	Overpass at km 152+282.46 of the railway line						
1	Preliminary works		Completion of the works	1	17,315	17,315	2/3-1.25
2	Substructure-earthworks		Completion of the works	1	430,884	430,884	2/3-1.25
3	Superstructure-pavement structure		Completion of the works	1	85,936	85,936	2/3-1.25
4	Dewatering		Completion of the works	1	3,620	3,620	2/3-1.25
5	Access road to the building for telecommunications equipment		Completion of the works	1	119,002	119,002	2/3-1.25
6	Service road-macadam		Completion of the works	1	14,362	14,362	2/3-1.25
AI	Underpass at km 156+455.99 of the railway line						
1	Preliminary works		Completion of the works	1	5,229	5,229	2/3-1.26
2	Substructure-earthworks		Completion of the works	1	69,281	69,281	2/3-1.26
3	Superstructure-pavement structure		Completion of the works	1	115,761	115,761	2/3-1.26
4	Dewatering		Completion of the works	1	16,118	16,118	2/3-1.26
5	Service road		Completion of the works	1	23,669	23,669	2/3-1.26
6	Service road-macadam		Completion of the works	1	161,753	161,753	2/3-1.26
AJ	Underpass at km 157+443.73 of the railway line						
1	Preliminary works		Completion of the works	1	12,793	12,793	2/3-1.27
2	Substructure-earthworks		Completion of the works	1	73,809	73,809	2/3-1.27
3	Superstructure-pavement structure		Completion of the works	1	119,372	119,372	2/3-1.27
4	Dewatering		Completion of the works	1	11,282	11,282	2/3-1.27

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Service road 1		Completion of the works	1	57,884	57,884	2/3-1.27
6	Service road 2		Completion of the works	1	48,399	48,399	2/3-1.27
7	Access road to the SP "ŽEDNIK".		Completion of the works	1	13,109	13,109	2/3-1.27
AK	Overpass at km 160+094.84 of the railway line						
1	Preliminary works		Completion of the works	1	15,978	15,978	2/3-1.28
2	Substructure-earthworks		Completion of the works	1	450,064	450,064	2/3-1.28
3	Superstructure-pavement structure		Completion of the works	1	118,960	118,960	2/3-1.28
4	Dewatering		Completion of the works	1	4,029	4,029	2/3-1.28
5	Service road-macadam		Completion of the works	1	29,770	29,770	2/3-1.28
AL	Overpass at km 163+671.71 of the railway line						
1	Preliminary works		Completion of the works	1	13,610	13,610	2/3-1.29
2	Substructure-earthworks		Completion of the works	1	602,217	602,217	2/3-1.29
3	Superstructure-pavement structure		Completion of the works	1	123,468	123,468	2/3-1.29
4	Dewatering		Completion of the works	1	4,835	4,835	2/3-1.29
5	Service road along the railway line with asphalt surfacing from km 162+200.00 to km 162+950.00		Completion of the works	1	176,007	176,007	2/3-1.29
6	Access road to NAUMIĆEVO STATION		Completion of the works	1	715,824	715,824	2/3-1.29
7	Service road - macadam		Completion of the works	1	15,585	15,585	2/3-1.29
AM	Overpass at km 168+690.22 of the railway line						
1	Preliminary works		Completion of the works	1	31,387	31,387	2/3-1.30
2	Substructure-earthworks		Completion of the works	1	550,654	550,654	2/3-1.30

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Superstructure-pavement structure		Completion of the works	1	142,611	142,611	2/3-1.30
4	Dewatering		Completion of the works	1	4,432	4,432	2/3-1.30
5	Service road 1		Completion of the works	1	28,366	28,366	2/3-1.30
6	Service road 2		Completion of the works	1	96,052	96,052	2/3-1.30
7	Service road 3		Completion of the works	1	46,485	46,485	2/3-1.30
AN	Overpass at km 170+534.91 of the railway line						
1	Preliminary works		Completion of the works	1	21,766	21,766	2/3-1.31
2	Substructure-earthworks		Completion of the works	1	577,428	577,428	2/3-1.31
3	Superstructure-pavement structure		Completion of the works	1	127,202	127,202	2/3-1.31
4	Dewatering		Completion of the works	1	4,835	4,835	2/3-1.31
5	CONNECTION at км 0+099.41		Completion of the works	1	22,604	22,604	2/3-1.31
6	CONNECTION at км 0+633.51		Completion of the works	1	4,394	4,394	2/3-1.31
7	CONNECTION at км 0+877.59		Completion of the works	1	27,672	27,672	2/3-1.31
8	Service road – before overpass		Completion of the works	1	3,706	3,706	2/3-1.31
9	Service road – after overpass		Completion of the works	1	20,027	20,027	2/3-1.31
AO	Overpass at km 172+193.38 of the railway line						
1	Preliminary works		Completion of the works	1	20,301	20,301	2/3-1.32
2	Substructure-earthworks		Completion of the works	1	895,003	895,003	2/3-1.32
3	Superstructure-pavement structure		Completion of the works	1	204,238	204,238	2/3-1.32
4	Dewatering		Completion of the works	1	4,029	4,029	2/3-1.32

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Access road to the building for telecommunications equipment		Completion of the works	1	331,107	331,107	2/3-1.32
6	Service road - macadam		Completion of the works	1	12,891	12,891	2/3-1.32
AP	Underpass at km 174+515.35 of the railway line						
1	Preliminary works		Completion of the works	1	29,195	29,195	2/3-1.33
2	Substructure-earthworks		Completion of the works	1	119,939	119,939	2/3-1.33
3	Superstructure-pavement structure		Completion of the works	1	721,068	721,068	2/3-1.33
4	Dewatering		Completion of the works	1	41,906	41,906	2/3-1.33
5	Service road		Completion of the works	1	481,717	481,717	2/3-1.33
AQ	Underpass at km 174+928.10 of the railway line						
1	Preliminary works		Completion of the works	1	3,278	3,278	2/3-1.34
2	Substructure-earthworks		Completion of the works	1	12,974	12,974	2/3-1.34
3	Superstructure-pavement structure		Completion of the works	1	96,800	96,800	2/3-1.34
4	Dewatering		Completion of the works	1	4,835	4,835	2/3-1.34
5	Connection road 1		Completion of the works	1	31,242	31,242	2/3-1.34
6	Connection road 2		Completion of the works	1	45,251	45,251	2/3-1.34
AR	Underpass at km 176+274.84 of the railway line						
1	Preliminary works		Completion of the works	1	4,463	4,463	2/3-1.35
2	Substructure-earthworks		Completion of the works	1	32,612	32,612	2/3-1.35
3	Superstructure-pavement structure		Completion of the works	1	176,133	176,133	2/3-1.35
4	Dewatering		Completion of the works	1	6,447	6,447	2/3-1.35
5	BOSE MILICEVIC street		Completion of the works	1	25,387	25,387	2/3-1.35

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
AS	Overpass at km 177+329.42 of the railway line						
1	Preliminary works		Completion of the works	1	20,403	20,403	2/3-1.36
2	Substructure-earthworks		Completion of the works	1	241,685	241,685	2/3-1.36
3	Superstructure-pavement structure		Completion of the works	1	311,741	311,741	2/3-1.36
4	Dewatering		Completion of the works	1	14,678	14,678	2/3-1.36
5	Connection road		Completion of the works	1	121,086	121,086	2/3-1.36
6	Access road to the SP SUBOTICA		Completion of the works	1	14,900	14,900	2/3-1.36
AT	Overpass and underpass at km 177+857.22 of the railway line						
1	Preliminary works		Completion of the works	1	13,014	13,014	2/3-1.37
2	Substructure-earthworks		Completion of the works	1	68,322	68,322	2/3-1.37
3	Superstructure-pavement structure		Completion of the works	1	135,921	135,921	2/3-1.37
4	Dewatering		Completion of the works	1	7,252	7,252	2/3-1.37
5	SEKSPIROVA street		Completion of the works	1	9,622	9,622	2/3-1.37
6	BAGREMOVA street		Completion of the works	1	21,496	21,496	2/3-1.37
7	ORAHOVA street		Completion of the works	1	31,150	31,150	2/3-1.37
8	Service road		Completion of the works	1	17,372	17,372	2/3-1.37
9	Service road		Completion of the works	1	23,335	23,335	2/3-1.37
10	Service road		Completion of the works	1	288,238	288,238	2/3-1.37
AU	Overpass at km 179+395.83 of the railway line						
1	Preliminary works		Completion of the works	1	29,458	29,458	2/3-1.38
2	Substructure-earthworks		Completion of the works	1	356,315	356,315	2/3-1.38

5. Access Road and Road Detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Superstructure-pavement structure		Completion of the works	1	294,729	294,729	2/3-1.38
4	Dewatering		Completion of the works	1	13,369	13,369	2/3-1.38
5	Connection road		Completion of the works	1	21,192	21,192	2/3-1.38
AV	Overpass at km 180+969.60 of the railway line						
1	Preliminary works		Completion of the works	1	25,010	25,010	2/3-1.39
2	Substructure-earthworks		Completion of the works	1	527,882	527,882	2/3-1.39
3	Superstructure-pavement structure		Completion of the works	1	268,545	268,545	2/3-1.39
4	Dewatering		Completion of the works	1	4,835	4,835	2/3-1.39
5	Service road - macadam		Completion of the works	1	25,903	25,903	2/3-1.39
AW	Overpass at km 184+258.47 of the railway line						
1	Preliminary works		Completion of the works	1	20,262	20,262	2/3-1.40
2	Substructure-earthworks		Completion of the works	1	432,546	432,546	2/3-1.40
3	Superstructure-pavement structure		Completion of the works	1	147,154	147,154	2/3-1.40
4	Dewatering		Completion of the works	1	4,029	4,029	2/3-1.40
5	Access rad to the building for telecommunications equipment		Completion of the works	1	152,290	152,290	2/3-1.40
6	Access road to the SPN "KELEBIJA"		Completion of the works	1	14,446	14,446	2/3-1.40
Summary(USD)						**27,374,721**	

6. Drainage Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Drainage works in Novi Sad and TPS Railway Station						
	Drainage works		Completion of drainage works	1	809,444	809,444	3/3
B	Drainage works in Sajlovo Station						
	Drainage works		Completion of drainage works	1	23,624	23,624	3/3
C	Drainage works in Rumenka Station						
	Drainage works		Completion of drainage works	1	23,624	23,624	3/3
D	Drainage works in Kisac Station						
	Drainage works		Completion of drainage works	1	45,794	45,794	3/3
E	Drainage works in Stepanovicevo Station						
	Drainage works		Completion of drainage works	1	37,424	37,424	3/3
F	Drainage works in Zmajevo Station						
	Drainage works		Completion of drainage works	1	46,597	46,597	3/3
G	Drainage works in Vrbas Station						
	Drainage works		Completion of drainage works	1	120,789	120,789	3/3
H	Drainage works in Lovcenac Station						
	Drainage works		Completion of drainage works	1	38,154	38,154	3/3
I	Drainage works in Backa Topola Station						
	Drainage works		Completion of drainage works	1	58,867	58,867	3/3
J	Drainage works in Zednik Station						
	Drainage works		Completion of drainage works	1	39,504	39,504	3/3
K	Drainage works in Naumovicevo Station						
	Drainage works		Completion of drainage works	1	34,799	34,799	3/3
L	Drainage works in Subotica Passenger Station and Subotica Fraight Station						
	Drainage works		Completion of drainage works	1	452,749	452,749	3/3
M	Relocation of channel 110 at km 83+634 railway						
	Drainage works		Completion of drainage works	1	9,045	9,045	3/2
N	Relocation of channel J-362 at km 86+748.33 railway						
	Drainage works		Completion of drainage works	1	12,518	12,518	3/2
O	Relocation of channel J-362-7-3 at km from 89+790,89 to 90+041 railway						
	Drainage works		Completion of drainage works	1	30,349	30,349	3/2
P	Relocation of channel J-362-7 at km 92+266.63 railway						
	Drainage works		Completion of drainage works	1	14,340	14,340	3/2
Q	Relocation of channel J-480-3-2 at km 95+376.44 railway						

6. Drainage Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
	Drainage works		Completion of drainage works	1	7,849	7,849	3/2
R	Relocation of channel J-480 at km 98+213.09 railway						
	Drainage works		Completion of drainage works	1	11,064	11,064	3/2
S	Relocation of channels J-520-2 and J-480-8 at km 99+339.76 railway						
	Drainage works		Completion of drainage works	1	5,894	5,894	3/2
T	Relocation of channel J-520 from km 100+856.82 to km 101+972.62 railway						
	Drainage works		Completion of drainage works	1	335,849	335,849	3/2
U	Relocation of channel J-III- 1 at km 103+602.05 railway						
	Drainage works		Completion of drainage works	1	16,758	16,758	3/2
V	Relocation of channel J-III- 2 at km 105+031 railway						
	Drainage works		Completion of drainage works	1	15,131	15,131	3/2
W	Relocation of unnamed channel from km 110+529 to км 111+270 railway						
	Drainage works		Completion of drainage works	1	94,037	94,037	3/2
X	Relocation of channel IV-A-5 at km 113+547,78 railway						
	Drainage works		Completion of drainage works	1	17,439	17,439	3/2
Y	Relocation of channel IV-D-8 from km 114+424 to km 114+574 railway						
	Drainage works		Completion of drainage works	1	17,661	17,661	3/2
Z	Relocation of channel IV-D at km 114+579,38 railway						
	Drainage works		Completion of drainage works	1	21,647	21,647	3/2
AA	Relocation of channel I-64 at km 117+477,85 railway						
	Drainage works		Completion of drainage works	1	46,731	46,731	3/2
AB	Relocation of channel I-61 at km 117+820 railway						
	Drainage works		Completion of drainage works	1	10,984	10,984	3/2
AC	Relocation of channel Krivaja at km 131+728 railway						
	Drainage works		Completion of drainage works	1	31,031	31,031	3/2
AD	Regulation of river Čiker at km 163+413.36 railway						
	Drainage works		Completion of drainage works	1	27,977	27,977	3/2
AE	Railway line drainage system						
	Drainage works		Completion of drainage works	1	6,514,120	6,514,120	3/1
Summary(USD)						**8,971,793**	

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Electric traction fixed installations-OCS: Novi Sad						
A-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	179,882	179,882	4/1.2
A-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	159,954	319,908	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	23,363	46,726	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	229,770	459,540	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	156,661	313,322	4/1.2
A-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	96,334	192,668	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	65,682	131,364	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	67,050	134,100	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	45,716	91,432	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	7,707	15,414	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	5,255	10,510	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	9,751	19,502	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	6,648	13,296	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	52,604	105,208	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	35,866	71,732	4/1.2
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	15,054	30,108	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	10,264	20,528	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	265,446	530,892	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	180,985	361,970	4/1.2
15	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	15,686	31,372	4/1.2
16	Section insulator-works	Installation of section insulator	Completion of the works on left or right side of station	2	10,695	21,390	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	4,972	9,944	4/1.2
18	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	3,390	6,780	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	53,100	106,200	4/1.2
20	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	36,205	72,410	4/1.2
A-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	59,337	118,674	4/1.2
A-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	103,688	207,376	4/1.2
B	Electric traction fixed installations-OCS: Novi Sad - Rumenka						
B-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	40,078	40,078	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
B-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts.	Completion of the works on left or right track	2	290,030	580,060	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	51,083	102,166	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	394,209	788,418	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	268,779	537,558	4/1.2
B-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	164,713	329,426	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	112,304	224,608	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	56,548	113,096	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	38,556	77,112	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	33,913	67,826	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	23,123	46,246	4/1.2
7	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	77,152	154,304	4/1.2
8	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	52,604	105,208	4/1.2
9	Drop arm-procurement	Material supply	Completion of procurement for left or right track	2	8,895	17,790	4/1.2
10	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right track	2	6,065	12,130	4/1.2
11	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	507,342	1,014,684	4/1.2
12	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	345,915	691,830	4/1.2
13	Bypass feeder-procurement	Material supply	Completion of procurement for left or right track	2	55,512	111,024	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
14	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right track	2	37,849	75,698	4/1.2
15	Section insulator-procurement	Material supply	Completion of procurement for left or right track	2	7,129	14,258	4/1.2
16	Section insulator-works	Installation of section insulator.	Completion of the works on left or right track	2	4,861	9,722	4/1.2
17	Neutral Section-procurement	Material supply	Completion of procurement for left or right track	2	1,462	2,924	4/1.2
18	Neutral Section-works	Installation of neutral section made of two section insulators or two insulated overlaps.	Completion of the works on left or right track	2	997	1,994	4/1.2
19	Automatic neutral section passing device-procurement	Material supply	Completion of procurement for left or right track	2	6,416	12,832	4/1.2
20	Automatic neutral section passing device-works	Installation of automatic neutral section passing device.	Completion of the works on left or right track	2	4,375	8,750	4/1.2
21	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	12,433	24,866	4/1.2
22	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	8,477	16,954	4/1.2
23	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	29,869	59,738	4/1.2
24	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	20,365	40,730	4/1.2
25	Arresters-procurement	Material supply	Completion of procurement for left or right track	2	3,848	7,696	4/1.2
26	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right track	2	2,624	5,248	4/1.2
B-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	122,995	245,990	4/1.2
B-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	176,672	353,344	4/1.2
C	Electric traction fixed installations-OCS: Rumenka						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
C-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	26,148	26,148	4/1.2
C-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	76,615	153,230	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	12,672	25,344	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	102,740	205,480	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	70,050	140,100	4/1.2
C-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	48,356	96,712	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	32,970	65,940	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	24,234	48,468	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	16,523	33,046	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	6,165	12,330	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	4,204	8,408	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	2,924	5,848	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	1,994	3,988	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	24,548	49,096	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	16,737	33,474	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	5,131	10,262	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	3,499	6,998	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	161,662	323,324	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	110,224	220,448	4/1.2
15	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	8,556	17,112	4/1.2
16	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	5,833	11,666	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	46,462	92,924	4/1.2
18	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	31,679	63,358	4/1.2
C-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	40,576	81,152	4/1.2
C-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	54,780	109,560	4/1.2
D	Electric traction fixed installations-OCS: Rumenka - Kisac						
D1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	19,105	19,105	4/1.2
D-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	101,476	202,952	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	19,007	38,014	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	121,588	243,176	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	82,902	165,804	4/1.2
D-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	67,244	134,488	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	45,849	91,698	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	19,387	38,774	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	13,219	26,438	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	15,415	30,830	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	10,510	21,020	4/1.2
7	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	28,054	56,108	4/1.2
8	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	19,128	38,256	4/1.2
9	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	241,495	482,990	4/1.2
10	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	164,656	329,312	4/1.2
D-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	30,983	61,966	4/1.2
D-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	35,948	71,896	4/1.2
E	Electric traction fixed installations-OCS: Kisac						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
E-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	39,865	39,865	4/1.2
E-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	47,872	95,744	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	13,860	27,720	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	77,175	154,350	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	52,620	105,240	4/1.2
E-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	41,556	83,112	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	28,333	56,666	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	33,121	66,242	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	22,582	45,164	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	7,707	15,414	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	5,255	10,510	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	2,924	5,848	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	1,994	3,988	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	28,054	56,108	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	19,128	38,256	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	3,079	6,158	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	2,099	4,198	4/1.2
13	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	145,695	291,390	4/1.2
14	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	99,338	198,676	4/1.2
15	Bypass feeder-procurement	Material supply	Completion of procurement for left or right side of station	2	54,075	108,150	4/1.2
16	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right side of station	2	36,869	73,738	4/1.2
17	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	8,556	17,112	4/1.2
18	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	5,833	11,666	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	12,433	24,866	4/1.2
20	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	8,477	16,954	4/1.2
21	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	33,187	66,374	4/1.2
22	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	22,628	45,256	4/1.2
23	Arresters-procurement	Material supply	Completion of procurement for left or right side of station	2	3,848	7,696	4/1.2
24	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right side of station	2	2,624	5,248	4/1.2
E-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	42,214	84,428	4/1.2
E-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	55,154	110,308	4/1.2
F	Electric traction fixed installations-OCS: Kisac - Stepanovicevo						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
F-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	73,109	73,109	4/1.2
F-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	108,993	217,986	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	19,007	38,014	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	130,520	261,040	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	88,991	177,982	4/1.2
F-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	71,778	143,556	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	48,940	97,880	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	19,387	38,774	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	13,219	26,438	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	15,415	30,830	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	10,510	21,020	4/1.2
7	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	28,054	56,108	4/1.2
8	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	19,128	38,256	4/1.2
9	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	332,760	665,520	4/1.2
10	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	118,843	237,686	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
F-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	30,615	61,230	4/1.2
F-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	66,956	133,912	4/1.2
G	Electric traction fixed installations-OCS: Stepanovicevo						
G-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	15,228	15,228	4/1.2
G-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	52,185	104,370	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	8,315	16,630	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	85,818	171,636	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	58,512	117,024	4/1.2
G-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	28,711	57,422	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	19,576	39,152	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	25,850	51,700	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	17,625	35,250	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	3,082	6,164	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	2,102	4,204	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	2,924	5,848	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	1,994	3,988	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	17,534	35,068	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	11,955	23,910	4/1.2
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	3,421	6,842	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	2,332	4,664	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	97,795	195,590	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	66,679	133,358	4/1.2
15	Bypass feeder-procurement	Material supply	Completion of procurement for left or right side of station	2	28,512	57,024	4/1.2
16	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right side of station	2	19,440	38,880	4/1.2
17	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	8,556	17,112	4/1.2
18	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	5,833	11,666	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	26,550	53,100	4/1.2
20	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	18,102	36,204	4/1.2
G-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	27,230	54,460	4/1.2
G-5	Miscellaneous						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	41,009	82,018	4/1.2
H	Electric traction fixed installations-OCS: Stepanovicevo - Zmajevo						
H-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	9,222	9,222	4/1.2
H-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	87,696	175,392	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	16,632	33,264	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	102,093	204,186	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	69,609	139,218	4/1.2
H-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	55,911	111,822	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	38,121	76,242	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	14,540	29,080	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	9,914	19,828	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	9,248	18,496	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	6,306	12,612	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right track	2	974	1,948	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right track	2	664	1,328	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	21,040	42,080	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	14,346	28,692	4/1.2
11	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	199,582	399,164	4/1.2
12	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	136,079	272,158	4/1.2
H-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	23,645	47,290	4/1.2
H-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	37,160	74,320	4/1.2
I	Electric traction fixed installations-OCS: Zmajevo						
I-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	2	26,763	53,526	4/1.2
I-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	64,785	129,570	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	14,651	29,302	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	99,236	198,472	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	67,661	135,322	4/1.2
I-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	37,022	74,044	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	25,242	50,484	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	33,121	66,242	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	22,582	45,164	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	6,165	12,330	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	4,204	8,408	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	3,411	6,822	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	2,326	4,652	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	26,301	52,602	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	17,933	35,866	4/1.2
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	2,052	4,104	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	1,399	2,798	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	125,737	251,474	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	85,730	171,460	4/1.2
15	Bypass feeder-procurement	Material supply	Completion of procurement for left or right side of station	2	55,419	110,838	4/1.2
16	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right side of station	2	37,786	75,572	4/1.2
17	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	8,556	17,112	4/1.2
18	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	5,833	11,666	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	12,433	24,866	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
20	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	8,477	16,954	4/1.2
21	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	26,550	53,100	4/1.2
22	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	18,102	36,204	4/1.2
23	Arresters-procurement	Material supply	Completion of procurement for left or right side of station	2	3,848	7,696	4/1.2
24	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right side of station	2	2,624	5,248	4/1.2
I-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	48,072	96,144	4/1.2
I-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	55,577	111,154	4/1.2
J	Electric traction fixed installations-OCS: Zmajevo- Novi Vrbas						
J-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	36,539	36,539	4/1.2
J-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	195,436	390,872	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	40,391	80,782	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	242,546	485,092	4/1.2
4	OCS poles and portals-works	Erect poles and portals.	Completion of the works on left or right track	2	165,372	330,744	4/1.2
J-3	Electrical works						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	124,668	249,336	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	85,001	170,002	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	43,622	87,244	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	29,743	59,486	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	27,747	55,494	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	18,918	37,836	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right track	2	974	1,948	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right track	2	664	1,328	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	66,632	133,264	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	45,431	90,862	4/1.2
11	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	579,156	1,158,312	4/1.2
12	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	206,841	413,682	4/1.2
13	Bypass feeder-procurement	Material supply	Completion of procurement for left or right track	2	21,380	42,760	4/1.2
14	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right track	2	14,578	29,156	4/1.2
15	Automatic neutral section passing device-procurement	Material supply	Completion of procurement for left or right track	2	6,416	12,832	4/1.2
16	Automatic neutral section passing device-works	Installation of automatic neutral section passing device.	Completion of the works on left or right track	2	5,250	10,500	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	13,274	26,548	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
18	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	9,051	18,102	4/1.2
J-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	63,238	126,476	4/1.2
J-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	127,241	254,482	4/1.2
K	Electric traction fixed installations-OCS: Vrbas new						
K-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	18,325	18,325	4/1.2
K-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	81,698	163,396	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	17,819	35,638	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	101,061	202,122	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	68,905	137,810	4/1.2
K-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	55,155	110,310	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	37,606	75,212	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	45,238	90,476	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	30,844	61,688	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	6,165	12,330	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	4,204	8,408	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	5,850	11,700	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	3,989	7,978	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	35,068	70,136	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	23,911	47,822	4/1.2
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	2,736	5,472	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	1,866	3,732	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	190,602	381,204	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	129,956	259,912	4/1.2
15	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	8,556	17,112	4/1.2
16	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	5,833	11,666	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	46,462	92,924	4/1.2
18	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	31,679	63,358	4/1.2
K-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	47,484	94,968	4/1.2
K-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	62,992	125,984	4/1.2
L	Electric traction fixed installations-OCS: Vrbas new-Vrbas existing						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
L-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	2	4,377	8,754	4/1.2
L-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	28,814	57,628	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	3,168	6,336	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	33,444	66,888	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	22,803	45,606	4/1.2
L-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	12,843	25,686	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	8,757	17,514	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	9,693	19,386	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	6,609	13,218	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	1,950	3,900	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	1,329	2,658	4/1.2
7	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	7,014	14,028	4/1.2
8	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	4,782	9,564	4/1.2
9	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	58,423	116,846	4/1.2
10	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	20,865	41,730	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
L-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	2,277	4,554	4/1.2
L-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	14,155	28,310	4/1.2
M	Electric traction fixed installations-OCS: Vrbas existing						
M-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	2	9,430	18,860	4/1.2
M-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	33,518	67,036	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	4,934	9,868	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	36,070	72,140	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	24,594	49,188	4/1.2
M-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	8,104	16,208	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	5,526	11,052	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	3,472	6,944	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	2,368	4,736	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	4,623	9,246	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	3,153	6,306	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	974	1,948	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	664	1,328	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	14,028	28,056	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	9,564	19,128	4/1.2
11	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	81,284	162,568	4/1.2
12	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	29,030	58,060	4/1.2
13	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	14,259	28,518	4/1.2
14	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	9,723	19,446	4/1.2
15	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	7,459	14,918	4/1.2
16	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	5,086	10,172	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	13,274	26,548	4/1.2
18	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	9,051	18,102	4/1.2
M-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	6,207	12,414	4/1.2
M-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	4,535	9,070	4/1.2
N	Electric traction fixed installations-OCS: Vrbas new-Lovcenac						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
N-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	115,517	115,517	4/1.2
N-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	359,553	719,106	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	59,400	118,800	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	431,066	862,132	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	293,908	587,816	4/1.2
N-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	213,825	427,650	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	145,790	291,580	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	67,857	135,714	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	46,267	92,534	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	40,080	80,160	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	27,327	54,654	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right track	2	1,950	3,900	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right track	2	1,329	2,658	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	98,194	196,388	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	66,951	133,902	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	676,588	1,353,176	4/1.2
12	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	461,311	922,622	4/1.2
13	Bypass feeder-procurement	Material supply	Completion of procurement for left or right track	2	17,689	35,378	4/1.2
14	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right track	2	12,061	24,122	4/1.2
15	Automatic neutral section passing device-procurement	Material supply	Completion of procurement for left or right track	2	6,416	12,832	4/1.2
16	Automatic neutral section passing device-works	Installation of automatic neutral section passing device.	Completion of the works on left or right track	2	4,375	8,750	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	9,946	19,892	4/1.2
18	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	6,782	13,564	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	13,274	26,548	4/1.2
20	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	9,051	18,102	4/1.2
21	Arresters-procurement	Material supply	Completion of procurement for left or right track	2	3,079	6,158	4/1.2
22	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right track	2	2,099	4,198	4/1.2
N-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	224,311	448,622	4/1.2
N-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	212,601	425,202	4/1.2
O	Electric traction fixed installations-OCS: Lovcenac						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
O-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	44,478	44,478	4/1.2
O-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	63,532	127,064	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	9,108	18,216	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	103,659	207,318	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	70,677	141,354	4/1.2
O-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	43,822	87,644	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	29,879	59,758	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	30,697	61,394	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	20,930	41,860	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	6,165	12,330	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	4,204	8,408	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	3,411	6,822	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	2,326	4,652	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	26,301	52,602	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	17,933	35,866	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	3,763	7,526	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	2,565	5,130	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	145,695	291,390	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	99,338	198,676	4/1.2
15	Bypass feeder-procurement	Material supply	Completion of procurement for left or right side of station	2	61,324	122,648	4/1.2
16	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right side of station	2	41,812	83,624	4/1.2
17	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	8,556	17,112	4/1.2
18	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	5,833	11,666	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	12,433	24,866	4/1.2
20	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	8,477	16,954	4/1.2
21	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	33,187	66,374	4/1.2
22	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	22,628	45,256	4/1.2
23	Arresters-procurement	Material supply	Completion of procurement for left or right side of station	2	3,848	7,696	4/1.2
24	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right side of station	2	2,624	5,248	4/1.2
O-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	48,015	96,030	4/1.2
O-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	59,659	119,318	4/1.2
P	Electric traction fixed installations-OCS: Lovcenac - Backa Topola						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
P-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	91,806	91,806	4/1.2
P-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	259,329	518,658	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	47,519	95,038	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	497,223	994,446	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	339,016	678,032	4/1.2
P-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	162,446	324,892	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	110,759	221,518	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	48,469	96,938	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	33,047	66,094	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	33,913	67,826	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	23,123	46,246	4/1.2
7	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	70,138	140,276	4/1.2
8	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	47,822	95,644	4/1.2
9	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	585,379	1,170,758	4/1.2
10	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	399,122	798,244	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
P-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	77,253	154,506	4/1.2
P-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	175,114	350,228	4/1.2
Q	Electric traction fixed installations-OCS: Backa Topola						
Q-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	70,943	70,943	4/1.2
Q-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	99,576	199,152	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	22,571	45,142	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	263,193	526,386	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	179,450	358,900	4/1.2
Q-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	31,732	63,464	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	21,636	43,272	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	37,160	74,320	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	25,336	50,672	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	7,707	15,414	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	5,255	10,510	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	4,875	9,750	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	3,324	6,648	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	35,068	70,136	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	23,911	47,822	4/1.2
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	3,763	7,526	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	2,565	5,130	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	190,003	380,006	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	129,548	259,096	4/1.2
15	Bypass feeder-procurement	Material supply	Completion of procurement for left or right side of station	2	78,381	156,762	4/1.2
16	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right side of station	2	53,442	106,884	4/1.2
17	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	17,112	34,224	4/1.2
18	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	11,667	23,334	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	17,406	34,812	4/1.2
20	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	11,868	23,736	4/1.2
21	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	39,825	79,650	4/1.2
22	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	27,153	54,306	4/1.2
23	Arresters-procurement	Material supply	Completion of procurement for left or right side of station	2	3,848	7,696	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
24	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right side of station	2	2,624	5,248	4/1.2
Q-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	63,192	126,384	4/1.2
Q-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	90,407	180,814	4/1.2
R	Electric traction fixed installations-OCS: Backa Topola-Zednik						
R-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	20,157	20,157	4/1.2
R-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	241,790	483,580	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	46,728	93,456	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	476,205	952,410	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	324,685	649,370	4/1.2
R-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	151,868	303,736	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	103,547	207,094	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	53,317	106,634	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	36,352	72,704	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	33,913	67,826	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	23,123	46,246	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right track	2	974	1,948	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right track	2	664	1,328	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	80,660	161,320	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	54,995	109,990	4/1.2
11	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	564,822	1,129,644	4/1.2
12	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	385,106	770,212	4/1.2
13	Automatic neutral section passing device-procurement	Material supply	Completion of procurement for left or right track	2	6,416	12,832	4/1.2
14	Automatic neutral section passing device-works	Installation of automatic neutral section passing device.	Completion of the works on left or right track	2	4,375	8,750	4/1.2
15	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	13,274	26,548	4/1.2
16	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	9,051	18,102	4/1.2
R-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	78,162	156,324	4/1.2
R-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	172,186	344,372	4/1.2
S	Electric traction fixed installations-OCS: Zednik						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
S1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	88,013	88,013	4/1.2
S-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	71,603	143,206	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	16,235	32,470	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	187,266	374,532	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	127,682	255,364	4/1.2
S-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	46,844	93,688	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	31,939	63,878	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	33,928	67,856	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	23,133	46,266	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	6,165	12,330	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	4,204	8,408	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	3,411	6,822	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	2,326	4,652	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	26,301	52,602	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	17,933	35,866	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	2,736	5,472	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	1,866	3,732	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	152,680	305,360	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	104,101	208,202	4/1.2
15	Bypass feeder-procurement	Material supply	Completion of procurement for left or right side of station	2	60,590	121,180	4/1.2
16	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right side of station	2	41,312	82,624	4/1.2
17	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	11,408	22,816	4/1.2
18	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	7,778	15,556	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	12,433	24,866	4/1.2
20	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	8,477	16,954	4/1.2
21	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	36,506	73,012	4/1.2
22	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	24,890	49,780	4/1.2
23	Arresters-procurement	Material supply	Completion of procurement for left or right side of station	2	3,848	7,696	4/1.2
24	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right side of station	2	2,624	5,248	4/1.2
S-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	53,129	106,258	4/1.2
S-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	71,821	143,642	4/1.2
T	Electric traction fixed installations-OCS: Zednik-Naumovicevo						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
T-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	10,256	10,256	4/1.2
T-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolt	Completion of the works on left or right track	2	194,184	388,368	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	29,304	58,608	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	366,633	733,266	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	249,978	499,956	4/1.2
T-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	123,913	247,826	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	84,486	168,972	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	29,082	58,164	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	19,828	39,656	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	21,580	43,160	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	14,714	29,428	4/1.2
7	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	42,082	84,164	4/1.2
8	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	28,693	57,386	4/1.2
9	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	379,208	758,416	4/1.2
10	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	258,551	517,102	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
T-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	51,674	103,348	4/1.2
T-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	121,345	242,690	4/1.2
U	Electric traction fixed installations-OCS: Naumovicevo						
U-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	64,219	64,219	4/1.2
U-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	82,303	164,606	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	21,384	42,768	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	215,578	431,156	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	146,986	293,972	4/1.2
U-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	61,200	122,400	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	41,728	83,456	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	40,390	80,780	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	27,539	55,078	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	9,248	18,496	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	6,306	12,612	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	3,900	7,800	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	2,659	5,318	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	35,068	70,136	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	23,911	47,822	4/1.2
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	6,842	13,684	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	4,665	9,330	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	189,603	379,206	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	129,275	258,550	4/1.2
15	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	9,981	19,962	4/1.2
16	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	6,806	13,612	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	39,825	79,650	4/1.2
18	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	27,153	54,306	4/1.2
U-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	43,110	86,220	4/1.2
U-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	75,147	150,294	4/1.2
V	Electric traction fixed installations-OCS: Naumovicevo-- Subotica passenger						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
V-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	1	27,978	27,978	4/1.2
V-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	301,111	602,222	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	39,995	79,990	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	649,897	1,299,794	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	443,112	886,224	4/1.2
V-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	159,046	318,092	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	108,441	216,882	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	67,050	134,100	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	45,716	91,432	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	30,830	61,660	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	21,021	42,042	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right track	2	1,950	3,900	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right track	2	1,329	2,658	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	77,152	154,304	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	52,604	105,208	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Drop arm-procurement	Material supply	Completion of procurement for left or right track	2	13,684	27,368	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right track	2	9,331	18,662	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	520,914	1,041,828	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	355,168	710,336	4/1.2
15	Bypass feeder-procurement	Material supply	Completion of procurement for left or right track	2	20,647	41,294	4/1.2
16	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right track	2	14,078	28,156	4/1.2
17	Section insulator-procurement	Material supply	Completion of procurement for left or right track	2	9,981	19,962	4/1.2
18	Section insulator-works	Installation of section insulator.	Completion of the works on left or right track	2	6,806	13,612	4/1.2
19	Neutral Section-procurement	Material supply	Completion of procurement for left or right track	2	1,462	2,924	4/1.2
20	Neutral Section-works	Installation of neutral section made of two section insulators or two insulated overlaps.	Completion of the works on left or right track	2	997	1,994	4/1.2
21	Automatic neutral section passing device-procurement	Material supply	Completion of procurement for left or right track	2	6,416	12,832	4/1.2
22	Automatic neutral section passing device-works	Installation of automatic neutral section passing device.	Completion of the works on left or right track	2	4,375	8,750	4/1.2
23	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	12,433	24,866	4/1.2
24	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	8,477	16,954	4/1.2
25	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	23,230	46,460	4/1.2
26	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	15,839	31,678	4/1.2
27	Arresters-procurement	Material supply	Completion of procurement for left or right track	2	3,848	7,696	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
28	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right track	2	2,624	5,248	4/1.2
V-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	91,428	182,856	4/1.2
V-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	179,839	359,678	4/1.2
W	Electric traction fixed installations-OCS: Subotica freight						
W-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	1	51,506	51,506	4/1.2
W-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	91,533	183,066	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	13,475	26,950	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	98,504	197,008	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	67,162	134,324	4/1.2
W-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	22,134	44,268	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	15,091	30,182	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	9,486	18,972	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	6,468	12,936	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	12,628	25,256	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	8,610	17,220	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	2,661	5,322	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	1,815	3,630	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	38,307	76,614	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	26,118	52,236	4/1.2
11	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	174,409	348,818	4/1.2
12	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	118,915	237,830	4/1.2
13	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	38,943	77,886	4/1.2
14	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	26,552	53,104	4/1.2
15	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	20,372	40,744	4/1.2
16	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	13,890	27,780	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	36,252	72,504	4/1.2
18	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	24,717	49,434	4/1.2
W-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	16,950	33,900	4/1.2
W-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	12,385	24,770	4/1.2
X	Electric traction fixed installations-OCS: Subotica passenger						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
X-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right side of station	2	141,029	282,058	4/1.2
X-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right side of station	2	162,857	325,714	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right side of station	2	21,384	42,768	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right side of station	2	538,870	1,077,740	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right side of station	2	367,412	734,824	4/1.2
X-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	59,689	119,378	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	40,697	81,394	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right side of station	2	96,939	193,878	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right side of station	2	66,095	132,190	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right side of station	2	18,498	36,996	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right side of station	2	12,612	25,224	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right side of station	2	6,337	12,674	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right side of station	2	4,321	8,642	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right side of station	2	43,837	87,674	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right side of station	2	29,889	59,778	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Drop arm-procurement	Material supply	Completion of procurement for left or right side of station	2	29,082	58,164	4/1.2
12	Drop arm-works	Installation of drop arms on portals.	Completion of the works on left or right side of station	2	19,828	39,656	4/1.2
13	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right side of station	2	253,471	506,942	4/1.2
14	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right side of station	2	172,821	345,642	4/1.2
15	Bypass feeder-procurement	Material supply	Completion of procurement for left or right side of station	2	82,872	165,744	4/1.2
16	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right side of station	2	56,504	113,008	4/1.2
17	Section insulator-procurement	Material supply	Completion of procurement for left or right side of station	2	37,077	74,154	4/1.2
18	Section insulator-works	Installation of section insulator.	Completion of the works on left or right side of station	2	25,280	50,560	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	42,273	84,546	4/1.2
20	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	28,823	57,646	4/1.2
21	Disconnectors-procurement	Material supply	Completion of procurement for left or right side of station	2	33,187	66,374	4/1.2
22	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right side of station	2	22,628	45,256	4/1.2
23	Arresters-procurement	Material supply	Completion of procurement for left or right side of station	2	5,388	10,776	4/1.2
24	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right side of station	2	3,674	7,348	4/1.2
X-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right side of station	2	72,043	144,086	4/1.2
X-5	Miscellaneous						
1	Compeletion of works	Inspect and test completed works and energize the OCS.	Completion of the works on left or right side of station	2	150,254	300,508	4/1.2
Y	Electric traction fixed installations-OCS: Subotica passenger - State border						

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
Y-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	Completion of the works on left or right track	2	1,616	3,232	4/1.2
Y-2	Civil works						
1	Foundations of poles and portals	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts	Completion of the works on left or right track	2	164,743	329,486	4/1.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	Completion of the works on left or right track	2	28,116	56,232	4/1.2
3	OCS poles and portals-procurement	Procurement of poles and portals.	Completion of procurement for left or right track	2	322,262	644,524	4/1.2
4	OCS poles and portals-works	Errect poles and portals.	Completion of the works on left or right track	2	219,724	439,448	4/1.2
Y-3	Electrical works						
1	Single cantilever-procurement	Material supply	Completion of procurement for left or right track	2	92,934	185,868	4/1.2
2	Single cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	63,364	126,728	4/1.2
3	Twin cantilever-procurement	Material supply	Completion of procurement for left or right track	2	33,928	67,856	4/1.2
4	Twin cantilever-works	Installation with breckets and insulators	Completion of the works on left or right track	2	23,133	46,266	4/1.2
5	Mid-point-procurement	Material supply	Completion of procurement for left or right track	2	16,956	33,912	4/1.2
6	Mid-point-works	Assembly installation with ropes and clamps.	Completion of the works on left or right track	2	11,561	23,122	4/1.2
7	Fixed end -procurement	Material supply	Completion of procurement for left or right track	2	974	1,948	4/1.2
8	Fixed end -works	Installation catenary end on a pole with brackets but without pulleys and balance weights.	Completion of the works on left or right track	2	664	1,328	4/1.2
9	Automatic tensioning-procurement	Material supply	Completion of procurement for left or right track	2	38,576	77,152	4/1.2
10	Automatic tensioning-works	Installation catenary end on a pole with brackets,pulleys and balance weights.	Completion of the works on left or right track	2	26,302	52,604	4/1.2

7. Overhead Contact System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	OCS Catenary-procurement	Material suppy of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of procurement for left or right track	2	347,475	694,950	4/1.2
12	OCS Catenary-works	Installation of Ri100 contact line,BzII 65 messeger wire,droppers,cut-in insulators and connecting strand	Completion of the works on left or right track	2	236,915	473,830	4/1.2
13	Bypass feeder-procurement	Material supply	Completion of procurement for left or right track	2	14,628	29,256	4/1.2
14	Bypass feeder-works	Installation of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	Completion of the works on left or right track	2	9,974	19,948	4/1.2
15	Automatic neutral section passing device-procurement	Material supply	Completion of procurement for left or right track	2	6,416	12,832	4/1.2
16	Automatic neutral section passing device-works	Installation of automatic neutral section passing device.	Completion of the works on left or right track	2	4,375	8,750	4/1.2
17	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	9,946	19,892	4/1.2
18	Disconnectors-works	Installation hand drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	6,782	13,564	4/1.2
19	Disconnectors-procurement	Material supply	Completion of procurement for left or right track	2	13,274	26,548	4/1.2
20	Disconnectors-works	Installation motor drive disconnectors, leverage and brackets.	Completion of the works on left or right track	2	9,051	18,102	4/1.2
21	Arresters-procurement	Material supply	Completion of procurement for left or right track	2	3,079	6,158	4/1.2
22	Arresters-works	Installation Zink-Oxide arrester, leverage and brackets.	Completion of the works on left or right track	2	2,099	4,198	4/1.2
Y-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metalltic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap.	Completion of the works on left or right track	2	58,526	117,052	4/1.2
Y-5	Miscellaneous	Inspect and test completed works and energize the OCS.	Completion of the works on left or right track	2	113,416	226,832	4/1.2
Summary(USD)						**80,679,702**	

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A.RECONSTRUCTION OF "Novi Sad" ETS - ELECTRICAL PART							
A-1	DISMANTLING OF ELECTRICAL EQUIPMENT						
1	Dismantling of 110/27.5kV equipment	include dismantling of traction transformer,110kV circuit breaker, 110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester,auxiliary transformer,25kV circuit breaker,25kV disconnector ,25kV voltage transformer	set	1	119,491	119,491	4/1.3
2	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,506	7,506	4/1.3
3	Dismantling of control protection panel	include dismantling of all protection cabinets(transformer,feeder,metering,communication) , etc	set	1	1,996	1,996	4/1.3
4	Dismantling of cables	include dismantling of electrical and control cables, etc	set	1	110,838	110,838	4/1.3
5	Dismantling of outdoor lighting	include dismantling of outdoor lighting and cables	set	1	1,895	1,895	4/1.3
A-2	INSTALLATION WORKS				-	-	
1	Detection and reinforcement of foundation	include reinforcement foundation of traction transformer, 110kV circuit, 110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester, lead structure	set	1	52,059	52,059	4/1.3
2	Detection and reinforcement of grounding grid	include reinforcement grounding of ETS	set	1	291,190	291,190	4/1.3
3	Installation of 110/27.5kV equipment	include installation of traction transformer,110kV circuit,110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester,auxiliary transformer,25kV circuit breaker cabinets,25kV disconnector cabinets,25kV voltage transformer cabinets, 25kV bus cabinets, 25kV lightning arrester	set	1	128,069	128,069	4/1.3
4	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
5	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (transformer,feeder,metering,communication) , etc	set	1	36,349	36,349	4/1.3
6	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	213,734	213,734	4/1.3
7	Installation of outdoor lighting	include installation of lamps, cables	set	1	5,755	5,755	4/1.3
8	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	3,168	3,168	4/1.3
A-3	ELECTRICAL EQUIPMENT				-	-	
1	Traction transformer	110/27.5kV, 10MVA, single phase, outdoor, oil immersed, natural cooling system (ONAN), secondary side load regulation	pcs	2	532,484	1,064,968	4/1.3
2	Auxiliary transformer	single phase, 25/0.23kV, 80kVA	pcs	1	26,806	26,806	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	110kV circuit breaker	double phase, outdoor, motor-operated, 1250A	pcs	2	83,599	167,198	4/1.3
4	110kV disconnector motor-operated	double phase, outdoor, motor-operated, 1250A	pcs	1	24,243	24,243	4/1.3
5	110kV disconnector manual-operated	double phase, outdoor, manual-operated, 1250A	pcs	5	11,704	58,520	4/1.3
6	110kV Current transformer	2×150/5,0.2,0.5,5P20,5P20, outdoor, oil immersed	pcs	2	22,571	45,142	4/1.3
7	110kV Voltage transformer	110/√3 :0.1/√3 :0.1/√3 , 0.2,3P, outdoor, oil immersed, capacitive	pcs	2	20,899	41,798	4/1.3
8	110kV Lightning Arrester	102/266kV	pcs	4	8,359	33,436	4/1.3
9	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5; voltage transformer 25/0.1; disconnector 1250A; 27.5kV Lightning Arrester;	set	1	524,345	524,345	4/1.3
10	Concentrated earthing box	include busbar, 1kV current transfromer	set	1	12,696	12,696	4/1.3
11	AC & DC system 2×100Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	46,558	46,558	4/1.3
12	Integrated automation system	include power meter cabinets, protection cabinets, communication mangement cabinets, etc	set	1	273,285	273,285	4/1.3
B.RECONSTRUCTION OF "Vrbas" ETS - ELECTRICAL PART					-	-	
B-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 110/27.5kV equipment	include dismantling of traction transformer,110kV circuit breaker, 110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester,auxiliary transformer,25kV circuit breaker,25kV disconnector ,25kV voltage transformer	set	1	119,491	119,491	4/1.3
2	Dismantling of AC&DC system	include dismantling of AC cabinets, DC cabinets, DC Battery, etc	set	1	7,506	7,506	4/1.3
3	Dismantling of control protection panel	include dismantling of all protection cabinets (transformer, feeder, metering, communication), etc	set	1	1,996	1,996	4/1.3
4	Dismantling of cables	include dismantling of electrical and control cables, etc	set	1	110,838	110,838	4/1.3
5	Dismantling of outdoor lighting	include dismantling of outdoor lighting and cables	set	1	1,895	1,895	4/1.3
B-2	INSTALLATION WORKS				-	-	
1	Detection and reinforcement of foundation	include reinforcement foundation of traction transformer, 110kV circuit, 110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester, lead structure	set	1	52,059	52,059	4/1.3
2	Detection and reinforcement of grounding grid	include reinforcement grounding of ETS	set	1	291,190	291,190	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Installation of 110/27.5kV equipment	include installation of traction transformer,110kV circuit,110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester,auxiliary transformer,25kV circuit breaker cabinets,25kV disconnector cabinets,25kV voltage transformer cabinets, 25kV bus cabinets, 25kV lightning arrester	set	1	124,027	124,027	4/1.3
4	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
5	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (transformer,feeder,metering,communication) , etc	set	1	36,349	36,349	4/1.3
6	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	213,734	213,734	4/1.3
7	Installation of outdoor lighting	include installation of lamps, cables	set	1	5,755	5,755	4/1.3
8	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	3,168	3,168	4/1.3
B-3	ELECTRICAL EQUIPMENT				-	-	
1	Traction transformer	110/27.5kV, 10MVA, single phase, outdoor, oil immersed, natural cooling system (ONAN), secondary side load regulation	pcs	2	532,484	1,064,968	4/1.3
2	Auxiliary transformer	single phase, 25/0.23kV, 80kVA	pcs	1	26,806	26,806	4/1.3
3	110kV circuit breaker	double phase, outdoor, motor-operated, 1250A	pcs	2	83,599	167,198	4/1.3
4	110kV disconnector motor-operated	double phase, outdoor, motor-operated, 1250A	pcs	1	24,243	24,243	4/1.3
5	110kV disconnector manual-operated	double phase, outdoor, manual-operated, 1250A	pcs	5	11,704	58,520	4/1.3
6	110kV Current transformer	2×150/5,0.2,0.5,5P20,5P20, outdoor, oil immersed	pcs	2	22,571	45,142	4/1.3
7	110kV Voltage transformer	110/√3 :0.1/√3 :0.1/√3 , 0.2,3P, outdoor, oil immersed, capacitive	pcs	2	20,899	41,798	4/1.3
8	110kV Lightning Arrester	102/266kV	pcs	4	8,359	33,436	4/1.3
9	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5; voltage transformer 25/0.1; disconnector 1250A; 27.5kV Lightning Arrester;	set	1	448,149	448,149	4/1.3
10	Concentrated earthing box	include busbar, 1kV current transfromer	set	1	12,696	12,696	4/1.3
11	AC & DC system 2×100Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	46,558	46,558	4/1.3
12	Integrated automation system	include power meter cabinets, protection cabinets, communication mangement cabinets, etc	set	1	273,285	273,285	4/1.3
C.RECONSTRUCTION OF "Subotica" ETS - ELECTRICAL PART					-	-	
C-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Dismantling of 110/27.5kV equipment	include dismantling of traction transformer,110kV circuit breaker, 110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester,auxiliary transformer,25kV circuit breaker,25kV disconnector ,25kV voltage transformer	set	1	119,491	119,491	4/1.3
2	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,506	7,506	4/1.3
3	Dismantling of control protection panel	include dismantling of all protection cabinets(transformer,feeder,metering,communication) , etc	set	1	1,996	1,996	4/1.3
4	Dismantling of cables	include dismantling of electrical and control cables, etc	set	1	110,838	110,838	4/1.3
5	Dismantling of outdoor lighting	include dismantling of outdoor lighting and cables	set	1	1,895	1,895	4/1.3
C-2	INSTALLATION WORKS				-	-	
1	Detection and reinforcement of foundation	include reinforcement foundation of traction transformer, 110kV circuit, 110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester, lead structure	set	1	52,059	52,059	4/1.3
2	Detection and reinforcement of grounding grid	include reinforcement grounding of ETS	set	1	291,190	291,190	4/1.3
3	Installation of 110/27.5kV equipment	include installation of traction transformer,110kV circuit,110kV disconnector,110kV voltage transformer,110kV current voltage,110kV lighting arrester,auxiliary transformer,25kV circuit breaker cabinets,25kV disconnector cabinets,25kV voltage transformer cabinets, 25kV bus cabinets, 25kV lightning arrester	set	1	128,069	128,069	4/1.3
4	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
5	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (transformer,feeder,metering,communication) , etc	set	1	36,349	36,349	4/1.3
6	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	213,734	213,734	4/1.3
7	Installation of outdoor lighting	include installation of lamps, cables	set	1	5,755	5,755	4/1.3
8	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	3,168	3,168	4/1.3
C-3	ELECTRICAL EQUIPMENT				-	-	
1	Traction transformer	110/27.5kV, 10MVA, single phase, outdoor, oil immersed, natural cooling system (ONAN), secondary side load regulation	pcs	2	532,484	1,064,968	4/1.3
2	Auxiliary transformer	single phase, 25/0.23kV, 80kVA	pcs	1	26,806	26,806	4/1.3
3	110kV circuit breaker	double phase, outdoor, motor-operated, 1250A	pcs	2	83,599	167,198	4/1.3
4	110kV disconnector motor-operated	double phase, outdoor, motor-operated, 1250A	pcs	1	24,243	24,243	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	110kV disconnector manual-operated	double phase, outdoor, manual-operated, 1250A	pcs	5	11,704	58,520	4/1.3
6	110kV Current transformer	2×150/5,0.2,0.5,5P20,5P20, outdoor, oil immersed	pcs	2	22,571	45,142	4/1.3
7	110kV Voltage transformer	110/√3 :0.1/√3 :0.1/√3 , 0.2,3P, outdoor, oil immersed, capacitive	pcs	2	20,899	41,798	4/1.3
8	110kV Lightning Arrester	102/266kV	pcs	4	8,359	33,436	4/1.3
9	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5; voltage transformer 25/0.1; disconnector 1250A; 27.5kV Lightning Arrester;	set	1	524,345	524,345	4/1.3
10	Concentrated earthing box	include busbar, 1kV current transfromer	set	1	12,696	12,696	4/1.3
11	AC & DC system 2×100Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	46,558	46,558	4/1.3
12	Integrated automation system	include power meter cabinets, protection cabinets, communication mangement cabinets, etc	set	1	273,285	273,285	4/1.3
D.TSPn " Zmajevo" - ELECTRICAL PART					-	-	
D-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 27.5kV equipment	include dismantling of auxiliary transformer, 25kV circuit breaker, 25kV disconnector, 25kV voltage transformer	set	1	35,982	35,982	4/1.3
2	Dismantling of grounding system	include grounding wires of TSPn	set	1	12,857	12,857	4/1.3
3	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,918	7,918	4/1.3
4	Dismantling of control protection cabinet	include dismantling of all protection cabinets (feeder, communication), etc	set	1	1,757	1,757	4/1.3
5	Dismantling of cables (electrical and control)	include dismantling of electrical and control cables, etc	set	1	21,590	21,590	4/1.3
D-2	INSTALLATION WORKS				-	-	
1	Installation of 27.5kV equipment	include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV disconnector cabinets,25kV voltage transformer cabinets, 25kV bus cabinets, 25kV lightning arrester	set	1	28,441	28,441	4/1.3
2	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
3	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	18,173	18,173	4/1.3
4	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	71,885	71,885	4/1.3
5	Installation of outdoor lighting	include installation of lamps, cables	set	1	4,437	4,437	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	956	956	4/1.3
7	Grounding	include grounding of TSPn and architecture	set	1	75,899	75,899	4/1.3
D-3	ELECTRICAL EQUIPMENT				-	-	
1	Auxiliary transformer	single phase, 25/0.23kV, 50kVA	pcs	1	24,121	24,121	4/1.3
2	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;disconnector 1250A;busbar 1250A; 25kV lightning arrester	set	1	367,894	367,894	4/1.3
3	AC & DC system 2×75Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	31,038	31,038	4/1.3
4	Integrated automation system	including protection cabinets, communication mangement cabinets, etc	set	1	234,078	234,078	4/1.3
E.TSPn " Bačka Topola " - ELECTRICAL PART					-	-	
E-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 27.5kV equipment	include dismantling of auxiliary transformer, 25kV circuit breaker, 25kV disconnector, 25kV voltage transformer	set	1	35,982	35,982	4/1.3
2	Dismantling of grounding system	include grounding wires of TSPn	set	1	12,857	12,857	4/1.3
3	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,918	7,918	4/1.3
4	Dismantling of control protection cabinet	include dismantling of all protection cabinets (feeder, communication), etc	set	1	1,757	1,757	4/1.3
5	Dismantling of cables (electrical and control)	include dismantling of electrical and control cables, etc	set	1	21,590	21,590	4/1.3
E-2	INSTALLATION WORKS				-	-	
1	Installation of 27.5kV equipment	include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV disconnector cabinets,25kV voltage transformer cabinets, 25kV bus cabinets, 25kV lightning arrester	set	1	28,441	28,441	4/1.3
2	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
3	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	18,173	18,173	4/1.3
4	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	71,885	71,885	4/1.3
5	Installation of outdoor lighting	include installation of lamps, cables	set	1	4,437	4,437	4/1.3
6	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	956	956	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	Grounding	include grounding of TSPn and architecture	set	1	75,899	75,899	4/1.3
E-3	ELECTRICAL EQUIPMENT				-	-	
1	Auxiliary transformer	single phase, 25/0.23kV, 50kVA	pcs	1	24,121	24,121	4/1.3
2	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;disconnector 1250A;busbar 1250A; 25kV lightning arrester	set	1	367,894	367,894	4/1.3
3	AC & DC system 2×75Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	31,038	31,038	4/1.3
4	Integrated automation system	including protection cabinets, communication mangement cabinets, etc	set	1	234,078	234,078	4/1.3
F.TSPn " Border（Granica） " - ELECTRICAL PART					-	-	
F-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 27.5kV equipment	include dismantling of auxiliary transformer, 25kV circuit breaker, 25kV disconnector, 25kV voltage transformer	set	1	35,982	35,982	4/1.3
2	Dismantling of grounding system	include grounding wires of TSPn	set	1	12,857	12,857	4/1.3
3	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,918	7,918	4/1.3
4	Dismantling of control protection cabinet	include dismantling of all protection cabinets (feeder, communication), etc	set	1	1,757	1,757	4/1.3
5	Dismantling of cables (electrical and control)	include dismantling of electrical and control cables, etc	set	1	21,590	21,590	4/1.3
F-2	INSTALLATION WORKS				-	-	
1	Installation of 27.5kV equipment	include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV disconnector cabinets,25kV voltage transformer cabinets, 25kV bus cabinets, 25kV lightning arrester	set	1	24,551	24,551	4/1.3
2	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
3	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	18,173	18,173	4/1.3
4	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	71,885	71,885	4/1.3
5	Installation of outdoor lighting	include installation of lamps, cables	set	1	4,437	4,437	4/1.3
6	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	956	956	4/1.3
7	Grounding	include grounding of TSPn and architecture	set	1	75,899	75,899	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
F-3	ELECTRICAL EQUIPMENT				-	-	
1	Auxiliary transformer	single phase, 25/0.23kV, 50kVA	pcs	1	24,121	24,121	4/1.3
2	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;disconnector 1250A;busbar 1250A; 25kV lightning arrester	set	1	315,975	315,975	4/1.3
3	AC & DC system 2×75Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	31,038	31,038	4/1.3
4	Integrated automation system	including protection cabinets, communication mangement cabinets, etc	set	1	234,078	234,078	4/1.3
G.TSP "Novi SAd" - ELECTRICAL PART					-	-	
G-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 27.5kV equipment	include dismantling of auxiliary transformer, 25kV circuit breaker, 25kV disconnector, 25kV voltage transformer	set	1	16,207	16,207	4/1.3
2	Dismantling of grounding system	include grounding wires of TSP	set	1	12,857	12,857	4/1.3
3	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,918	7,918	4/1.3
4	Dismantling of control protection cabinet	include dismantling of all protection cabinets (feeder, communication), etc	set	1	1,757	1,757	4/1.3
5	Dismantling of cables (electrical and control)	include dismantling of electrical and control cables, etc	set	1	21,590	21,590	4/1.3
H.TSP "Kisač" - ELECTRICAL PART					-	-	
H-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 27.5kV equipment	include dismantling of auxiliary transformer, 25kV circuit breaker, 25kV disconnector, 25kV voltage transformer	set	1	16,207	16,207	4/1.3
2	Dismantling of grounding system	include grounding wires of TSP	set	1	12,857	12,857	4/1.3
3	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,918	7,918	4/1.3
4	Dismantling of control protection cabinet	include dismantling of all protection cabinets (feeder, communication), etc	set	1	1,757	1,757	4/1.3
5	Dismantling of cables (electrical and control)	include dismantling of electrical and control cables, etc	set	1	21,590	21,590	4/1.3
H-2	INSTALLATION WORKS				-	-	
1	Installation of 27.5kV equipment	include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV voltage transformer cabinets, 25kV bus cabinets	set	1	23,556	23,556	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
3	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	18,173	18,173	4/1.3
4	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	71,885	71,885	4/1.3
5	Installation of outdoor lighting	include installation of lamps, cables	set	1	4,437	4,437	4/1.3
6	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	956	956	4/1.3
7	Grounding	include grounding of TSPn and architecture	set	1	75,899	75,899	4/1.3
H-3	ELECTRICAL EQUIPMENT				-	-	
1	Auxiliary transformer	single phase, 25/0.23kV, 50kVA	pcs	1	24,121	24,121	4/1.3
2	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;busbar 1250A	set	1	288,688	288,688	4/1.3
3	AC & DC system 2×75Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	31,038	31,038	4/1.3
4	Integrated automation system	including protection cabinets, communication mangement cabinets, etc	set	1	234,078	234,078	4/1.3
I.TSP "Lovćenac" - ELECTRICAL PART					-	-	
I-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 27.5kV equipment	include dismantling of auxiliary transformer, 25kV circuit breaker, 25kV disconnector, 25kV voltage transformer	set	1	16,207	16,207	4/1.3
2	Dismantling of grounding system	include grounding wires of TSP	set	1	12,857	12,857	4/1.3
3	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,918	7,918	4/1.3
4	Dismantling of control protection cabinet	include dismantling of all protection cabinets (feeder, communication), etc	set	1	1,757	1,757	4/1.3
5	Dismantling of cables (electrical and control)	include dismantling of electrical and control cables, etc	set	1	21,590	21,590	4/1.3
I-2	INSTALLATION WORKS				-	-	
1	Installation of 27.5kV equipment	include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV voltage transformer cabinets, 25kV bus cabinets	set	1	23,556	23,556	4/1.3
2	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
3	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	18,173	18,173	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	71,885	71,885	4/1.3
5	Installation of outdoor lighting	include installation of lamps, cables	set	1	4,437	4,437	4/1.3
6	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	956	956	4/1.3
7	Grounding	include grounding of TSPn and architecture	set	1	75,899	75,899	4/1.3
I-3	ELECTRICAL EQUIPMENT				-	-	
1	Auxiliary transformer	single phase, 25/0.23kV, 50kVA	pcs	1	24,121	24,121	4/1.3
2	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;busbar 1250A	set	1	288,688	288,688	4/1.3
3	AC & DC system 2×75Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	31,038	31,038	4/1.3
4	Integrated automation system	including protection cabinets, communication mangement cabinets, etc	set	1	234,078	234,078	4/1.3
J.TSP "Žednik" - ELECTRICAL PART					-	-	
J-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 27.5kV equipment	include dismantling of auxiliary transformer, 25kV circuit breaker, 25kV disconnector, 25kV voltage transformer	set	1	16,207	16,207	4/1.3
2	Dismantling of grounding system	include grounding wires of TSP	set	1	12,857	12,857	4/1.3
3	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,918	7,918	4/1.3
4	Dismantling of control protection cabinet	include dismantling of all protection cabinets (feeder, communication), etc	set	1	1,757	1,757	4/1.3
5	Dismantling of cables (electrical and control)	include dismantling of electrical and control cables, etc	set	1	21,590	21,590	4/1.3
J-2	INSTALLATION WORKS				-	-	
1	Installation of 27.5kV equipment	include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV voltage transformer cabinets, 25kV bus cabinets	set	1	23,556	23,556	4/1.3
2	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
3	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	18,173	18,173	4/1.3
4	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	71,885	71,885	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Installation of outdoor lighting	include installation of lamps, cables	set	1	4,437	4,437	4/1.3
6	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	956	956	4/1.3
7	Grounding	include grounding of TSPn and architecture	set	1	75,899	75,899	4/1.3
J-3	ELECTRICAL EQUIPMENT				-	-	
1	Auxiliary transformer	single phase, 25/0.23kV, 50kVA	pcs	1	24,121	24,121	4/1.3
2	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;busbar 1250A	set	1	288,688	288,688	4/1.3
3	AC & DC system 2×75Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	31,038	31,038	4/1.3
4	Integrated automation system	including protection cabinets, communication mangement cabinets, etc	set	1	234,078	234,078	4/1.3
K.TSP "Subotica" - ELECTRICAL PART					-	-	
K-1	DISMANTLING OF ELECTRICAL EQUIPMENT				-	-	
1	Dismantling of 27.5kV equipment	include dismantling of auxiliary transformer, 25kV circuit breaker, 25kV disconnector, 25kV voltage transformer	set	1	16,207	16,207	4/1.3
2	Dismantling of grounding system	include grounding wires of TSP	set	1	12,857	12,857	4/1.3
3	Dismantling of AC&DC system	include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	7,918	7,918	4/1.3
4	Dismantling of control protection cabinet	include dismantling of all protection cabinets (feeder, communication), etc	set	1	1,757	1,757	4/1.3
5	Dismantling of cables (electrical and control)	include dismantling of electrical and control cables, etc	set	1	21,590	21,590	4/1.3
K-2	INSTALLATION WORKS				-	-	
1	Installation of 27.5kV equipment	include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV voltage transformer cabinets, 25kV bus cabinets	set	1	31,337	31,337	4/1.3
2	Installation of AC&DC system	include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	7,203	7,203	4/1.3
3	Installation and testing of control protection cabinets	include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	18,173	18,173	4/1.3
4	Cable laying	include laying of all auxiliary power supply electric cables and secondary control cables	set	1	71,885	71,885	4/1.3
5	Installation of outdoor lighting	include installation of lamps, cables	set	1	4,437	4,437	4/1.3

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Ancillary works	include installation of Anti mouse board, insulation pad, etc	set	1	956	956	4/1.3
7	Grounding	include grounding of TSPn and architecture	set	1	75,899	75,899	4/1.3
K-3	ELECTRICAL EQUIPMENT				-	-	
1	Auxiliary transformer	single phase, 25/0.23kV, 50kVA	pcs	1	24,121	24,121	4/1.3
2	25kV Air Insulation Switchgears	with vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;busbar 1250A	set	1	392,526	392,526	4/1.3
3	AC & DC system 2×75Ah	include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	31,038	31,038	4/1.3
4	Integrated automation system	including protection cabinets, communication mangement cabinets, etc	set	1	234,078	234,078	4/1.3
L.Operation control center					-	-	
L-1	INSTALLATION WORKS				-	-	
1	Installation of grounding	include cabinets and steel stent grounding to the grounding grid	set	1	5,859	5,859	4/1.4
2	Installation of equipment	include all the sever station cabinet installation, dispatching station installation, the cable laying, cable protection, etc	set	1	49,657	49,657	4/1.4
3	Installation of LCD display	including cable laying, LCD and its control device testing, etc	set	1	13,653	13,653	4/1.4
4	Debugging of equipment	include all the server,dispatcher workstation,maintenance work station,communication interface,clock interface debug,software debug	set	1	28,057	28,057	4/1.4
5	Controlled station system Intermodulation	include debug between remote control main station and the controllde station	set	1	39,822	39,822	4/1.4
L-2	ELECTRICAL EQUIPMENT				-	-	
1	Historical data server	for storage of the historical and various static data storage of traction power supply systems,rack-mounted and its technical specifications are as follows: CPU: 8-core Intel Xeon CPU (dual CPU configuration) Memory: 32GB Network interface: 4 10BaseT / 100BaseTX External capacity: 4 × 900GB DVD-ROM: 1	pcs	2	64,900	129,800	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Configure server	configure and manage various types of system data. The configuration data includes all kinds of platform nodes, pictures, dot information and communication protocols of the dispatching system. As a database server, its special system architecture can ensure that after its offline does not affect the core business of main station. The configuration server can also provide maintenance functions of adding, change and so on. The configuration server uses a rack-mounted server with the following technical parameters: CPU: 8-core Intel Xeon CPU (dual CPU configuration) Memory: 32GB Network interface: 4 10BaseT / 100BaseTX External capacity: 4 × 600GB DVD-ROM: 1	pcs	1	59,820	59,820	4/1.4
3	Storage device	for the SCADA system data storage,the basic configuration indicators are as follows: Controller: Dual controller Cache: 2GB Host interface: 4 4Gbps Fiber Channel interface RAID level: 5 level Memory partition: 4,8,16 or 64 memory partitions Fan and power supply: dual redundant hot-swappable hard drive: SAS hard drive, hard drive capacity 2T	pcs	1	135,443	135,443	4/1.4
4	Application and communication server	the core equipment of SCADA dispatching main station system used for real-time business processing. It mainly completes the business logic processing of SCADA, realizes communication with the controlled station system. The number of equipment configuration are related to the number of controlled sites and I / O monitoring points. According to the requirements of the monitoring capacity, the system configures 2 sets of communication and application server. When there is an application and communication server failure, another server can immediately replace the fault machine to run. It can greatly improve the reliability of SCADA business processing. The communications and application servers are rack-mounted server configurations. Its technical parameters are as follows: CPU: 6-core Intel Xeon CPU (dual CPU configuration) Memory: 32GB Network interface: 5 10BaseT / 100BaseTX External capacity: 4 * 300GB DVD-ROM: 1	pcs	2	56,434	112,868	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Maintenance work station	,maintain the system maintenance platform and anti-virus software. Through the maintenance workstations can log on the system network, online maintenance of all the equipment within the system, and regularly updated anti-virus database, carrying the system's anti-virus services. The maintenance workstation uses a world-renowned brand workstation-level computer, configure a 22-inch display. Considering the maintenance workstation can be used to replace the faulty dispatcher workstation if necessary, so the main specifications are consistent with the dispatcher workstation. Specifications are as follows: CPU: single 4 core (intel core I7) Frequency: 3.0GHz Memory: 16GB Hard drive: 1TB (SATA) DVD-ROM: 1 Graphics type: high-definition multi-screen graphics card, memory 4GB	pcs	1	10,587	10,587	4/1.4
6	Core switch	constitute a redundant data processing network, responsible for the data exchange between the computer nodes and storage devices. Its technical specifications are as follows: Type: Layer 3 switch; Machine switching capacity: 5.9Tbps; Packet forwarding rate: 200Mpps; 24-port Ethernet 10 / 100Mpps ports, SFP-based Gigabit Ethernet ports are configured on-demand.	pcs	4	118,511	474,044	4/1.4
7	Firewall & IPS intrusion detection adaptive security device	mainly used to ensure the system's network security, to achieve virus protection, network management, firewall isolation, intrusion detection and other functions. The detailed technical specifications are as follows: clear text throughput: 188Mbps 168-bit 3DES IPSec VPN throughput: 130Mbps concurrent VPN tunnel: 2000 Concurrent connection: 130,000 5000 / sec Processor: 433MHz random storage memory: 32MB, or 64MB SDRAM flash memory: 16MB	pcs	1	73,870	73,870	4/1.4
8	Cables and accessories	include power supply cables,fiber,LCD cables	pcs	1	2,257	2,257	4/1.4
9	Access layer switch	for communication with the controlled station. Its technical specifications are as follows: Transmission rate: 10Mbps / 100Mbps / 1000Mbps Exchange mode: storage - forwarding Packet forwarding rate: 30 Mpps Transmission mode: support full duplex Backplane Bandwidth: 32Gbps VLAN support: support	pcs	2	18,341	36,682	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
10	Dispatching staff station	According to SCADA system dispatching management, analysis and other operational needs, the allocation of a set of dispatcher workstation for the realization of the daily management. Dispatcher workstations using the world famous brand of workstation-class computer, each configuration 3 22-inch display, and the main specifications are as follows: CPU: single 4 core (intel core I7) Frequency: 3.0GHz Memory: 16GB Hard drive: 1TB (SATA) DVD-ROM: 1 Graphics type: high-definition multi-screen graphics card, memory 4GB System configuration data printer used to complete the system monitoring screen, data, reports and other print. The use of laser network printer, A4 format, resolution 600 * 600dpi.	pcs	1	11,653	11,653	4/1.4
11	Cabinets and kits	include Server cabinets and kits	pcs	3	6,799	20,397	4/1.4
12	Column head cabinet	The system has two independent AC power supply, with dual power switch, cabinet configuration ammeter, voltmeter, and not less than 10 feeders. The system configures on-line uninterruptible power supply system (UPS), redundant configuration. UPS has a remote communication interface for real-time monitoring UPS work status by the workstation. UPS capacity is 15kVA, to meet the full load of 1 hour power supply needs.	pcs	2	50,159	100,318	4/1.4
13	Software cost	SCADA dispatching master system software, including: system software, platform software and application software	pcs	1	564,342	564,342	4/1.4
14	LCD display and its control device (55inch, 3*4=12 unit)	used to display the line diagram, power supply facilities distribution diagram, substation main wiring diagram, catenary power supply sub-schematic diagram, catenary switch remote monitoring, and other information. It can display the dispatch center any display on the screen, and can be multi-screen display.	pcs	1	259,596	259,596	4/1.4
M.Remote control unit - Novi Sad					-	-	
M-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	127,152	127,152	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
M-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
N.Remote control unit - Sajlovo					-	-	
N-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	7,433	7,433	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	93,901	93,901	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
N-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	1	42,327	42,327	4/1.4
O.Remote control unit - Rumenka					-	-	
O-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	127,152	127,152	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
O-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
P.Remote control unit - Kisač					-	-	
P-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	118,792	118,792	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
P-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
Q.Remote control unit - Stepanovićevo					-	-	

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
Q-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	7,433	7,433	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	93,901	93,901	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
Q-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	1	42,327	42,327	4/1.4
R.Remote control unit - Zmajevo					-	-	
R-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	127,152	127,152	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
R-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
S.Remote control unit - Vrbas Nova					-	-	
S-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	127,152	127,152	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
S-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
T.Remote control unit - Vrbas (existing)					-	-	
T-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	7,433	7,433	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	93,901	93,901	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
T-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	1	42,327	42,327	4/1.4
U.Remote control unit - Vrbas ETS					-	-	
U-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	7,433	7,433	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	93,901	93,901	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
U-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	1	42,327	42,327	4/1.4
V.Remote control unit - Lovćenac-Mali Iđoš					-	-	
V-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	118,792	118,792	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
V-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
W.Remote control unit - Bačka Topola					-	-	
W-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	127,152	127,152	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
W-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
X.Remote control unit -Žednik					-	-	
X-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	118,792	118,792	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
X-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
Y.Remote control unit -Naumovićevo					-	-	
Y-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	118,792	118,792	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
Y-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
Z.Remote control unit - Stanica Subotica					-	-	
Z-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	7,433	7,433	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	93,901	93,901	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
Z-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	1	42,327	42,327	4/1.4
AA.Remote control unit -Subotica					-	-	
AA-1	INSTALLATION WORKS				-	-	
1	Grounding grid of RTU	include installation grounding of RTU	set	1	21,685	21,685	4/1.4
2	Installation and testing of RTU	include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	14,867	14,867	4/1.4
3	Ancillary works	include Anti mouse board, insulation pad, etc.	set	1	842	842	4/1.4
4	Cable laying	include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	118,792	118,792	4/1.4
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	5,016	5,016	4/1.4
AA-2	ELECTRICAL EQUIPMENT				-	-	
1	OCS disconnector control cabinet	including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	42,327	84,654	4/1.4
AB. Connetion of ETS "VRBAS" to overhead contact system					-	-	
AB-1	Civil works				-	-	

8. Electrical Traction Substation - EVP, TSPn, TSP

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Preparatory and finishing works	Preparation of construction site, construction and remedying of access roads, preparation of terrain at tower locations, control and inspection of executed works.	set	1	3,538	3,538	4/1.5
2	Earthworks	Excavation of II and III category soil for foundations of towers,Compaction of soil around the foundations,etc	set	1	22,100	22,100	4/1.5
3	Concrete and reinforced concrete works with reinforcement	In-situ casting of foundations for towers of reinforced concrete MB 20. The required formwork and reinforcement are provided separately,Supply, transport, straightening, cleaning, cutting, bending and installation of ribbed reinforcement	set	1	85,596	85,596	4/1.5
4	Steel structure	Supply and fabrication of galvanized steel structure,Mounting and erection of towers.	set	1	289,104	289,104	4/1.5
5	Earthing	Fabrication and installation of earthing of round galvanized steel	set	1	3,059	3,059	4/1.5
AB -2	WORKS FOR DISMANTLING OF EXISTING LONG DISTANCE POWER TRANSMISSION LINE				-	-	
1	Dismantling of existing power transmission line		set	1	37,120	37,120	4/1.5
AB -3	Electrical INSTALLATION WORKS				-	-	
1	Equipment and materials	Cable,Earth wire,Insulators,Coupling accessories,etc	set	1	174,652	174,652	4/1.5
2	Works	Transport of equipment and materials ,Mounting of insulator strings,Tensioning of conductor	set	1	48,072	48,072	4/1.5
Summary (USD):						**22,273,130**	

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A.Transformer station powered from OCS 25/0.23 kV							
1	Electrical installation works for 25/0.23 kV 5 kVA						
1-1	construction and installation cost	foundation,total for earthing system,Supporting structure, connections, TS testing and so on	set	4	6,744	26,976	4/2.1
1-2	equipment cost	Transformer 25/0.23 kV 5 kVA,cabinet	set	4	12,526	50,104	4/2.1
2	Electrical installation works for 25/0.23 kV 50 kVA						
2-1	construction and installation cost	foundation,total for earthing system,Supporting structure, connections, TS testing and so on	set	15	9,249	138,735	4/2.1
2-2	equipment cost	Transformer 25/0.23 kV 50 kVA,cabinet	set	15	17,177	257,655	4/2.1
3	Electrical installation works for 25/0.23 kV 100 kVA						
3-1	construction and installation cost	foundation,total for earthing system,Supporting structure, connections, TS testing and so on	set	39	10,294	401,466	4/2.1
3-2	equipment cost	Transformer 25/0.23 kV 100 kVA,cabinet	set	39	19,119	745,641	4/2.1
B.Distribution transformer stations 10(20)/0.4 kV							
1	Electrical installation works for distribution transformer stations 10(20)/0.4 kV	Foundation,cable trench, cable, transformer, other works	set	1	589,012	589,012	4/2.2
2	Supply of materials and equipment	Ttransformer station 10(20)/0.4 kV	set	1	1,374,361	1,374,361	4/2.2
C.Electric power installations							
1	Electrical installations for facilities in Novi Sad						
1-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	627,614	627,614	4/2.2
1-2	equipment cost	UPS and accessories	place	1	3,556,490	3,556,490	4/2.2
2	Electrical installations for facilities in Tošin Sluzbeno mesto Sajlovor						
2-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	121,283	121,283	4/2.2
2-2	equipment cost	UPS and accessories	place	1	225,240	225,240	4/2.2
3	Electrical installations for facilities in Rumenka						

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	118,000	118,000	4/2.2
3-2	equipment cost	UPS and accessories	place	1	219,145	219,145	4/2.2
4	Electrical installations for facilities in Kisac						
4-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	236,003	236,003	4/2.2
4-2	equipment cost	UPS and accessories	place	1	438,292	438,292	4/2.2
5	Electrical installations for facilities in Stepanovicevo						
5-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	119,521	119,521	4/2.2
5-2	equipment cost	UPS and accessories	place	1	221,968	221,968	4/2.2
6	Electrical installations for facilities in Zmajevo						
6-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	223,074	223,074	4/2.2
6-2	equipment cost	UPS and accessories	place	1	414,282	414,282	4/2.2
7	Electrical installations for facilities in Vrbas						
7-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	320,804	320,804	4/2.2
7-2	equipment cost	UPS and accessories	place	1	595,780	595,780	4/2.2
8	Electrical installations for facilities in Lovcenac						
8-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	221,909	221,909	4/2.2
8-2	equipment cost	UPS and accessories	place	1	412,118	412,118	4/2.2
9	Electrical installations for facilities in Backa Topola						

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	337,553	337,553	4/2.2
9-2	equipment cost	UPS and accessories	place	1	626,885	626,885	4/2.2
10	Electrical installations for facilities in Zednik						
10-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	229,203	229,203	4/2.2
10-2	equipment cost	UPS and accessories	place	1	425,665	425,665	4/2.2
11	Electrical installations for facilities in Naumovicevo						
11-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	131,718	131,718	4/2.2
11-2	equipment cost	UPS and accessories	place	1	244,620	244,620	4/2.2
12	Electrical installations for facilities in Subotica						
12-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	434,808	434,808	4/2.2
12-2	equipment cost	UPS and accessories	place	1	2,463,916	2,463,916	4/2.2
13	Electrical power installations for supplying PSN border						
13-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	105,063	105,063	4/2.2
13-2	equipment cost	UPS and accessories	place	1	195,119	195,119	4/2.2
14	Electrical power installations for supplying TK objects						
14-1	installation cost	Power supply,distributin cabinets,UPS systerm,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	201,655	201,655	4/2.2
14-2	equipment cost	UPS and accessories	place	1	1,814,901	1,814,901	4/2.2
D.Lighting installation in station							

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Lighting installation in Novi Sad	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	162,777	162,777	4/2.3
2	Supply of materials and equipment for Novi Sad	Lighting poles,luminaires	Completion of the works on left or right side of station	1	379,816	379,816	4/2.3
3	Lighting installation in Kisac	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	38,248	38,248	4/2.3
4	Supply of materials and equipment for Kisac	Lighting poles,luminaires	Completion of the works on left or right side of station	1	89,246	89,246	4/2.3
5	Lighting installation in Stepanovicevo	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	43,213	43,213	4/2.3
6	Supply of materials and equipment for Stepanovicevo	Lighting poles,luminaires	Completion of the works on left or right side of station	1	100,832	100,832	4/2.3
7	Lighting installation in Zmajevo	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	47,450	47,450	4/2.3
8	Supply of materials and equipment for Zmajevo	Lighting poles,luminaires	Completion of the works on left or right side of station	1	110,719	110,719	4/2.3
9	Lighting installation in Vrbas	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	115,647	115,647	4/2.3
10	Supply of materials and equipment for Vrbas	Lighting poles,luminaires	Completion of the works on left or right side of station	1	269,845	269,845	4/2.3
11	Lighting installation in Lovcenac	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	41,581	41,581	4/2.3
12	Supply of materials and equipment for Lovcenac	Lighting poles,luminaires	Completion of the works on left or right side of station	1	97,024	97,024	4/2.3
13	Lighting installation in Backa Topola	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	65,936	65,936	4/2.3
14	Supply of materials and equipment for Backa Topola	Lighting poles,luminaires	Completion of the works on left or right side of station	1	153,854	153,854	4/2.3
15	Lighting installation in Zednik	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	44,286	44,286	4/2.3

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
16	Supply of materials and equipment for Zednik	Lighting poles,luminaires	Completion of the works on left or right side of station	1	103,335	103,335	4/2.3
17	Lighting installation in Naumovicevo	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	42,626	42,626	4/2.3
18	Supply of materials and equipment for Naumovicevo	Lighting poles,luminaires	Completion of the works on left or right side of station	1	99,462	99,462	4/2.3
19	Lighting installation in Naumovicevo	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	Completion of the works on left or right side of station	1	160,618	160,618	4/2.3
20	Supply of materials and equipment for Naumovicevo	Lighting poles,luminaires	Completion of the works on left or right side of station	1	374,776	374,776	4/2.3
21	Supply of materials and equipment for Pumping plants	Foundation,cable trench,LV cable,grounding,other works	Completion of the works on left or right side of station	1	776,303	776,303	4/2.3
E.Lighting installation at grade separated crossings and access roads							
1	Km89+315		Completion of the works	1	167,694	167,694	4/2.4
2	Km89+985		Completion of the works	1	21,607	21,607	4/2.4
3	Km95+740		Completion of the works	1	28,632	28,632	4/2.4
4	Km97+035		Completion of the works	1	212,368	212,368	4/2.4
5	Km98+150		Completion of the works	1	117,186	117,186	4/2.4
6	Km102+310		Completion of the works	1	157,485	157,485	4/2.4
7	Km113+328		Completion of the works	1	47,722	47,722	4/2.4
8	Km131+245		Completion of the works	1	95,446	95,446	4/2.4
9	Km132+055		Completion of the works	1	25,849	25,849	4/2.4
10	Km135+113		Completion of the works	1	141,842	141,842	4/2.4
11	Km138+933		Completion of the works	1	135,878	135,878	4/2.4
12	Km142+055		Completion of the works	1	85,900	85,900	4/2.4
13	Km142+713		Completion of the works	1	26,022	26,022	4/2.4
14	Km143+729		Completion of the works	1	82,587	82,587	4/2.4
15	Km147+137		Completion of the works	1	143,169	143,169	4/2.4
16	Km157+444		Completion of the works	1	78,742	78,742	4/2.4
17	Km168+690		Completion of the works	1	104,063	104,063	4/2.4
18	Km170+534		Completion of the works	1	190,892	190,892	4/2.4
19	Km172+200		Completion of the works	1	28,089	28,089	4/2.4
20	Km174+515		Completion of the works	1	71,584	71,584	4/2.4

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
21	Km174+928		Completion of the works	1	23,861	23,861	4/2.4
22	Km176+274		Completion of the works	1	23,861	23,861	4/2.4
23	Km177+329		Completion of the works	1	41,358	41,358	4/2.4
24	Km177+857		Completion of the works	1	108,039	108,039	4/2.4
25	Km179+395		Completion of the works	1	43,083	43,083	4/2.4
26	Km180+969		Completion of the works	1	241,266	241,266	4/2.4
27	Km184+258		Completion of the works	1	143,169	143,169	4/2.4
1 .Relocation and protection of electrical installations design for protection and relocation of the existing technical and utility infrastructure							
1	**Relocation and protection of power installations-35kv**						
1-1	km79+800		Completion of the works	1	12,824	12,824	4/2.5
1-2	km82+750		Completion of the works	1	30,644	30,644	4/2.5
1-3	km82+800		Completion of the works	1	26,591	26,591	4/2.5
1-4	km145+200		Completion of the works	1	25,072	25,072	4/2.5
1-5	km158+160		Completion of the works	1	25,576	25,576	4/2.5
1-6	km168+018		Completion of the works	1	25,483	25,483	4/2.5
1-7	km168+050		Completion of the works	1	26,591	26,591	4/2.5
1-8	km168+270		Completion of the works	1	32,518	32,518	4/2.5
1-9	km169+250		Completion of the works	1	24,933	24,933	4/2.5
2	**Relocation and protection of power installations-20kv(10kv)**						
2-1	km76+600		Completion of the works	1	15,385	15,385	4/2.5
2-2	km76+900		Completion of the works	1	16,790	16,790	4/2.5
2-3	km77+800		Completion of the works	1	15,879	15,879	4/2.5
2-4	km79+900		Completion of the works	1	23,679	23,679	4/2.5
2-5	km80+600		Completion of the works	1	24,692	24,692	4/2.5
2-6	km81+800		Completion of the works	1	15,322	15,322	4/2.5
2-7	km82+000		Completion of the works	1	19,500	19,500	4/2.5
2-8	km83+420		Completion of the works	1	20,703	20,703	4/2.5
2-9	km89+900		Completion of the works	1	14,157	14,157	4/2.5
2-10	km98+168		Completion of the works	1	15,461	15,461	4/2.5
2-11	km102+771		Completion of the works	1	24,211	24,211	4/2.5
2-12	km103+049		Completion of the works	1	23,844	23,844	4/2.5
2-13	km116+386		Completion of the works	1	14,119	14,119	4/2.5
2-14	km118+527-km118+574		Completion of the works	1	28,364	28,364	4/2.5

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2-15	km121+371		Completion of the works	1	14,084	14,084	4/2.5
2-16	km127+426		Completion of the works	1	13,815	13,815	4/2.5
2-17	km134+800-km135+000		Completion of the works	1	12,916	12,916	4/2.5
2-18	km135+497		Completion of the works	1	22,349	22,349	4/2.5
2-19	km138+800		Completion of the works	1	21,096	21,096	4/2.5
2-20	km140+500-km140+550		Completion of the works	1	29,504	29,504	4/2.5
2-21	km141+000		Completion of the works	1	20,944	20,944	4/2.5
2-22	km142+050-km142+620		Completion of the works	1	21,982	21,982	4/2.5
2-23	km142+900		Completion of the works	1	12,764	12,764	4/2.5
2-24	km143+350		Completion of the works	1	12,928	12,928	4/2.5
2-25	km144+400		Completion of the works	1	16,879	16,879	4/2.5
2-26	km148+513		Completion of the works	1	15,347	15,347	4/2.5
2-27	km157+405		Completion of the works	1	12,688	12,688	4/2.5
2-28	km157+960		Completion of the works	1	16,866	16,866	4/2.5
2-29	km167+307		Completion of the works	1	19,678	19,678	4/2.5
2-30	km167+850-km168+000		Completion of the works	1	19,943	19,943	4/2.5
2-31	km170+500-km170+800		Completion of the works	1	23,907	23,907	4/2.5
2-32	km171+070-km171+100		Completion of the works	1	25,135	25,135	4/2.5
2-33	km172+700-km172+950		Completion of the works	1	24,034	24,034	4/2.5
2-34	km173+500		Completion of the works	1	17,170	17,170	4/2.5
2-35	km174+850-km174+930		Completion of the works	1	22,096	22,096	4/2.5
2-36	km177+525		Completion of the works	1	22,349	22,349	4/2.5
2-37	km178+350		Completion of the works	1	23,831	23,831	4/2.5
2-38	km178+450		Completion of the works	1	21,045	21,045	4/2.5
2-39	km184+200		Completion of the works	1	16,904	16,904	4/2.5
2-40	km184+458		Completion of the works	1	17,512	17,512	4/2.5
2-41	km76+635		Completion of the works	1	13,587	13,587	4/2.5
2-42	km77+700		Completion of the works	1	14,283	14,283	4/2.5
2-43	km158+000		Completion of the works	1	21,134	21,134	4/2.5
2-44	km173+000		Completion of the works	1	23,502	23,502	4/2.5
3	**Relocation and protection of power installations-1kv**						
3-1	km76+600		Completion of the works	1	9,750	9,750	4/2.5
3-2	km79+645-km79+800		Completion of the works	1	8,838	8,838	4/2.5

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3-3	km80+025		Completion of the works	1	10,953	10,953	4/2.5
3-4	km89+975		Completion of the works	1	8,306	8,306	4/2.5
3-5	km90+600		Completion of the works	1	12,574	12,574	4/2.5
3-6	km96+363		Completion of the works	1	6,647	6,647	4/2.5
3-7	km97+050		Completion of the works	1	9,357	9,357	4/2.5
3-8	km97+468		Completion of the works	1	7,179	7,179	4/2.5
3-9	km117+400-km117+850		Completion of the works	1	14,081	14,081	4/2.5
3-10	km142+050-km142+620		Completion of the works	1	5,445	5,445	4/2.5
3-11	km142+900		Completion of the works	1	7,439	7,439	4/2.5
3-12	km158+245		Completion of the works	1	8,610	8,610	4/2.5
3-13	km162+200		Completion of the works	1	9,015	9,015	4/2.5
3-14	km162+955		Completion of the works	1	8,522	8,522	4/2.5
3-15	km169+200		Completion of the works	1	7,521	7,521	4/2.5
4	**Relocation and protection of power installations-110kv**						
4-1	Reconstruction of 110kV long distance power transmission line	No 1135 TS Novi Sad 3 - TS Novi Sad 5 (km 82+516.97 of the railway line)	Completion of the works	1	72,618	72,618	4/2.5
4-2	Reconstruction of 110kV long distance power transmission line	No 1136 TS Novi Sad 3 - TS Novi Sad 5 (km 82+560,00 of the railway line)	Completion of the works	1	72,398	72,398	4/2.5
4-3	Reconstruction of 110kV long distance power transmission line	No 127/1 TS Novi Sad 1 - TS Novi Sad 3 (km 83+441,16 of the railway line)	Completion of the works	1	68,032	68,032	4/2.5
4-4	Reconstruction of 110kV long distance power transmission line	No 1124/2 TS Vrbas 2 - TS Vrbas 1 (km 119+228.214 of the railway line)	Completion of the works	1	78,371	78,371	4/2.5
4-5	Reconstruction of 110kV long distance power transmission line	No 174 TS Srbobran - TS Vrbas 1 (km 119+271.796 of the railway line)	Completion of the works	1	85,347	85,347	4/2.5
4-6	Reconstruction of 110kV long distance power transmission line	No 132/3 TS Kula - TS Srbobran (km 119+944.799 of the railway line)	Completion of the works	1	57,872	57,872	4/2.5
4-7	Reconstruction of 110kV long distance power transmission line	No 133/2 TS Bačka Topola 2 - TS Bačka Topola (km 145+188.636 of the railway line)	Completion of the works	1	64,270	64,270	4/2.5

9. Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4-8	Reconstruction of 110kV long distance power transmission line	No 1102 TS Subotica 3 - TS Subotica 2 (km 171+735,36 of the railway line)	Completion of the works	1	65,775	65,775	4/2.5
4-9	Reconstruction of 110kV long distance power transmission line	No 1101 TS Subotica 3 - TS Subotica 2 (km 171+772 of the railway line)	Completion of the works	1	58815	58,815	4/2.5
Summary (USD):						**26,601,912**	

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A.Interlocking of the Novi Sad Passenger station and interstation distance belong to the Novi Sad							
A-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	3,823,164	3,823,164	5/1
2	CBI-software	Software of CBI system	station	1	955,790	955,790	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	424,815	424,815	5/1
4	CTC-software	Software of CTC system	station	1	106,202	106,202	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	453,980	453,980	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	45,591	45,591	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	23,599	23,599	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	2,144	2,144	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	465,956	465,956	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	505,540	505,540	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	20,113	20,113	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	80,456	80,456	5/1
A-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	1,321,939	1,321,939	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	1,074,745	1,074,745	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	120,108	120,108	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	635,756	635,756	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	6,275	6,275	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	761,798	761,798	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	122,026	122,026	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	9,006	9,006	5/1
A-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	696,666	696,666	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	77,406	77,406	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	20,337	20,337	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	66,763	66,763	5/1
A-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	477,269	477,269	5/2
A-5	Installation of outdoor equipment in stations	Installation of indoor equipment in stations	Completion of the works for the left or right side of the station	2	236,801	473,602	5/1
A-6	Installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	169,300	338,600	5/1
A-7	Dismantling of the existing devices and installing temporary interlocking in the course of works in the stations					-	
1	Dismantling of the existing devices	Dismantling of the existing interlocking devices.	station	1	48,912	48,912	5/1
2	Installing temporary interlocking	Installing of temporary interlocking	station	1	391,308	391,308	5/1
3	Dismantling of temporary interlokcing	dismantling of temporary interlocking.	station	1	48,912	48,912	5/1
A-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	43,580	43,580	5/1
A-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	313,050	313,050	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	334	334	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	26,729	26,729	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	40,675	40,675	5/1
A-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	70,538	70,538	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	7,837	7,837	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	5,702	5,702	5/1
A-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right side	2	16,487	32,974	5/1
A-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right side	2	18,058	36,116	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	8,447	8,447	5/1
B.Interlocking of the Sajlovo block station and interstation distance belong to the Sajlovo							
B-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	1,911,580	1,911,580	5/1
2	CBI-software	Software of CBI system	station	1	477,894	477,894	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	177,004	177,004	5/1
4	CTC-software	Software of CTC system	station	1	44,250	44,250	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	189,158	189,158	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	18,996	18,996	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	9,832	9,832	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	892	892	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	194,148	194,148	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	210,640	210,640	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	8,380	8,380	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	33,523	33,523	5/1
B-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	550,807	550,807	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	447,810	447,810	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	50,044	50,044	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	264,898	264,898	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	2,613	2,613	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	264,513	264,513	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	50,843	50,843	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	3,752	3,752	5/1
B-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	290,277	290,277	5/1
	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	32,252	32,252	5/1
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	8,473	8,473	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	27,817	27,817	5/1
B-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	198,861	198,861	5/2
B-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	98,667	197,334	5/1
B-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	70,541	141,082	5/1
B-7	Dismantling of the existing devices and installing temporary interlocking in the course of works in the stations					-	
1	Dismantling of the existing devices	Dismantling of the existing interlocking devices.	station	1	20,379	20,379	5/1
2	Installing temporary interlocking	Installing of temporary interlocking	station	1	163,044	163,044	5/1
3	Dismantling of temporary interlokcing	dismantling of temporary interlocking.	station	1	20,379	20,379	5/1
B-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	18,158	18,158	5/1
B-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	130,437	130,437	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	139	139	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	11,136	11,136	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	16,947	16,947	5/1
B-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	29,390	29,390	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	3,264	3,264	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	2,375	2,375	5/1
B-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	6,869	13,738	5/1
B-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	7,524	15,048	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
B-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	3,519	3,519	5/1
C.Interlocking of the Rumenka station and interstation distance belong to the Rumenka							
C-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	1,401,825	1,401,825	5/1
2	CBI-software	Software of CBI system	station	1	350,455	350,455	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	129,802	129,802	5/1
4	CTC-software	Software of CTC system	station	1	32,450	32,450	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	138,715	138,715	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	13,929	13,929	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	7,209	7,209	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	654	654	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	142,374	142,374	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	154,470	154,470	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	6,144	6,144	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	24,583	24,583	5/1
C-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	403,925	403,925	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	328,394	328,394	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	36,698	36,698	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	194,258	194,258	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	1,917	1,917	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	193,975	193,975	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	37,285	37,285	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	2,751	2,751	5/1
C-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	212,869	212,869	5/1
	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	23,652	23,652	5/1
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	6,214	6,214	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	20,399	20,399	5/1
C-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	145,832	145,832	5/2
C-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	72,355	144,710	5/1
C-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	51,730	103,460	5/1
C-7	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	13,316	13,316	5/1
C-8	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	95,654	95,654	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	101	101	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	8,166	8,166	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	12,428	12,428	5/1
C-9	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	21,552	21,552	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	2,394	2,394	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	1,742	1,742	5/1
C-10	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	5,037	10,074	5/1
C-11	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	5,517	11,034	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
C-12	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	2,580	2,580	5/1
D.Interlocking of the Kisač station and interstation distance belong to the Kisač							
D-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	1,146,948	1,146,948	5/1
2	CBI-software	Software of CBI system	station	1	286,736	286,736	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	106,202	106,202	5/1
4	CTC-software	Software of CTC system	station	1	26,550	26,550	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	113,493	113,493	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	11,397	11,397	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	5,898	5,898	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	535	535	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	116,487	116,487	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	126,384	126,384	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	5,028	5,028	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	20,113	20,113	5/1
D-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	330,484	330,484	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	268,684	268,684	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	30,026	30,026	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	158,938	158,938	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	1,568	1,568	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	158,707	158,707	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	30,506	30,506	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	2,251	2,251	5/1
D-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	174,166	174,166	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	19,351	19,351	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	5,084	5,084	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	16,690	16,690	5/1
D-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	119,317	119,317	5/2
D-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	59,200	118,400	5/1
D-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	42,325	84,650	5/1
D-7	Dismantling of the existing devices		station	1	12,228	12,228	5/1
D-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	10,894	10,894	5/1
D-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	78,262	78,262	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	83	83	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	6,681	6,681	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	10,168	10,168	5/1
D-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	17,634	17,634	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	1,958	1,958	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	1,424	1,424	5/1
D-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	4,121	8,242	5/1
D-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	4,513	9,026	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
D-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	2,111	2,111	5/1
E.Interlocking of the Stepanovićevo station and interstation distance belong to the Stepanovićevo							
E-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	1,401,825	1,401,825	5/1
2	CBI-software	Software of CBI system	station	1	350,455	350,455	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	129,802	129,802	5/1
4	CTC-software	Software of CTC system	station	1	32,450	32,450	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	138,715	138,715	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	13,929	13,929	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	7,209	7,209	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	654	654	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	142,374	142,374	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	154,470	154,470	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	6,144	6,144	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	24,583	24,583	5/1
E-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	403,925	403,925	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	328,394	328,394	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	36,698	36,698	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	194,258	194,258	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	1,917	1,917	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	193,975	193,975	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	37,285	37,285	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	2,751	2,751	5/1
E-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	212,869	212,869	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	23,652	23,652	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	6,214	6,214	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	20,399	20,399	5/1
E-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	145,832	145,832	5/2
E-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	72,355	144,710	5/1
E-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	51,730	103,460	5/1
E-7	Dismantling of the existing devices		station	1	14,945	14,945	5/1
E-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	13,316	13,316	5/1
E-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	95,654	95,654	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	101	101	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	8,166	8,166	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	12,428	12,428	5/1
E-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	21,552	21,552	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	2,394	2,394	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	1,742	1,742	5/1
E-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	5,037	10,074	5/1
E-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	5,517	11,034	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
E-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	2,580	2,580	5/1
F.Interlocking of the Zmajevo station and interstation distance belong to the Zmajevo							
F-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	1,274,386	1,274,386	5/1
2	CBI-software	Software of CBI system	station	1	318,595	318,595	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	118,003	118,003	5/1
4	CTC-software	Software of CTC system	station	1	29,499	29,499	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	126,105	126,105	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	12,663	12,663	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	6,554	6,554	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	595	595	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	129,430	129,430	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	140,426	140,426	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	5,586	5,586	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	22,347	22,347	5/1
F-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	367,205	367,205	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	298,539	298,539	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	33,362	33,362	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	176,598	176,598	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	1,742	1,742	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	176,341	176,341	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	33,895	33,895	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	2,501	2,501	5/1
F-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	193,518	193,518	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	21,501	21,501	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	5,649	5,649	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	18,544	18,544	5/1
F-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	132,574	132,574	5/2
F-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	65,778	131,556	5/1
F-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	47,027	94,054	5/1
F-7	Dismantling of the existing devices .		station	1	13,586	13,586	5/1
F-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	12,104	12,104	5/1
F-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	86,957	86,957	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	92	92	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	7,424	7,424	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	11,298	11,298	5/1
F-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	19,594	19,594	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	2,176	2,176	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	1,583	1,583	5/1
F-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	4,579	9,158	5/1
F-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	5,015	10,030	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
F-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	2,345	2,345	5/1
G.Interlocking of the New Vrbas station and interstation distance belong to the New Vrbas							
G-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	2,039,019	2,039,019	5/1
2	CBI-software	Software of CBI system	station	1	509,754	509,754	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	188,805	188,805	5/1
4	CTC-software	Software of CTC system	station	1	47,199	47,199	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	201,768	201,768	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	20,262	20,262	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	10,488	10,488	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	952	952	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	207,091	207,091	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	224,684	224,684	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	8,938	8,938	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	29,798	29,798	5/1
G-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	705,033	705,033	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	477,663	477,663	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	53,380	53,380	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	235,465	235,465	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	2,788	2,788	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	282,147	282,147	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	54,233	54,233	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	4,002	4,002	5/1
G-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	309,629	309,629	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	34,402	34,402	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	9,038	9,038	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	29,672	29,672	5/1
G-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	212,119	212,119	5/2
G-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	105,244	210,488	5/1
G-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	75,244	150,488	5/1
G-7	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	19,368	19,368	5/1
G-8	Outdoor equipment in the open line	Outdoor equipment in the open line			-	-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	139,133	139,133	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	147	147	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	11,879	11,879	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	18,077	18,077	5/1
G-9	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	31,350	31,350	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	3,482	3,482	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	2,534	2,534	5/1
G-10	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	7,327	14,654	5/1
G-11	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	8,025	16,050	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
G-12	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	3,753	3,753	5/1
H.Interlocking of the Lovćenac station and interstation distance belong to the Lovćenac							
H-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	1,529,264	1,529,264	5/1
2	CBI-software	Software of CBI system	station	1	382,315	382,315	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	141,603	141,603	5/1
4	CTC-software	Software of CTC system	station	1	35,400	35,400	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	151,326	151,326	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	15,196	15,196	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	7,866	7,866	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	714	714	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	155,318	155,318	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	168,513	168,513	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	6,704	6,704	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	26,817	26,817	5/1
H-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	440,646	440,646	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	358,246	358,246	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	40,034	40,034	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	211,918	211,918	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	2,091	2,091	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	211,610	211,610	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	40,675	40,675	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	3,002	3,002	5/1
H-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	232,221	232,221	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	25,801	25,801	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	6,778	6,778	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	22,254	22,254	5/1
H-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	159,089	159,089	5/2
H-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	78,933	157,866	5/1
H-6	Installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	56,432	112,864	5/1
H-7	Dismantling of the existing devices		station	1	16,303	16,303	5/1
H-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	14,526	14,526	5/1
H-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	104,349	104,349	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	111	111	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	8,909	8,909	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	13,557	13,557	5/1
H-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	23,512	23,512	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	2,611	2,611	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	1,900	1,900	5/1
H-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	5,495	10,990	5/1
H-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	6,019	12,038	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
H-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	2,815	2,815	5/1
I.Interlocking of the Bačka Topola station and interstation distance belong to the Bačka Topola							
I-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	3,058,530	3,058,530	5/1
2	CBI-software	Software of CBI system	station	1	764,631	764,631	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	283,209	283,209	5/1
4	CTC-software	Software of CTC system	station	1	70,801	70,801	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	302,653	302,653	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	30,394	30,394	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	15,732	15,732	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	1,429	1,429	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	310,636	310,636	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	337,027	337,027	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	13,408	13,408	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	53,636	53,636	5/1
I-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	881,293	881,293	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	716,496	716,496	5/1
3	Video monitoring and controlling of points lever position.	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	80,071	80,071	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	423,837	423,837	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	4,183	4,183	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	423,221	423,221	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	81,351	81,351	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	6,004	6,004	5/1
I-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	464,444	464,444	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	51,604	51,604	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	13,557	13,557	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	44,508	44,508	5/1
I-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	318,178	318,178	5/2
I-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	157,868	315,736	5/1
I-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	112,866	225,732	5/1
I-7	Dismantling of the existing devices		station	1	32,608	32,608	5/1
I-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	29,053	29,053	5/1
I-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	208,700	208,700	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	223	223	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	17,819	17,819	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	27,116	27,116	5/1
I-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	47,025	47,025	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	5,224	5,224	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	3,801	3,801	5/1
I-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	10,991	21,982	5/1
I-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	12,038	24,076	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
I-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	5,631	5,631	5/1
J.Interlocking of the Žednik station and interstation distance belong to the Žednik							
J-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	1,656,703	1,656,703	5/1
2	CBI-software	Software of CBI system	station	1	414,175	414,175	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	153,404	153,404	5/1
4	CTC-software	Software of CTC system	station	1	38,350	38,350	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	163,936	163,936	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	16,462	16,462	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	8,522	8,522	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	774	774	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	168,261	168,261	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	182,554	182,554	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	7,262	7,262	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	29,052	29,052	5/1
J-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	477,367	477,367	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	388,101	388,101	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	43,372	43,372	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	229,578	229,578	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	2,265	2,265	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	229,244	229,244	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	44,065	44,065	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	3,251	3,251	5/1
J-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	251,573	251,573	5/1
	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	27,951	27,951	5/1
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	7,343	7,343	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	24,108	24,108	5/1
J-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	172,346	172,346	5/2
J-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	85,511	171,022	5/1
J-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	61,136	122,272	5/1
J-7	Dismantling of the existing devices		station	1	17,663	17,663	5/1
J-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	15,737	15,737	5/1
J-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	113,045	113,045	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	120	120	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	9,651	9,651	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	14,687	14,687	5/1
J-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	25,471	25,471	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	2,829	2,829	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	2,058	2,058	5/1
J-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	5,953	11,906	5/1
J-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	6,520	13,040	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
J-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	3,050	3,050	5/1
K.Interlocking of the Naumovićevo station and interstation distance belong to the Naumovićevo							
K-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	1,784,142	1,784,142	5/1
2	CBI-software	Software of CBI system	station	1	446,034	446,034	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	165,205	165,205	5/1
4	CTC-software	Software of CTC system	station	1	41,300	41,300	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	176,546	176,546	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	17,728	17,728	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	9,176	9,176	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	832	832	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	181,204	181,204	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	196,598	196,598	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	7,820	7,820	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	31,287	31,287	5/1
K-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	514,086	514,086	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	417,956	417,956	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	46,708	46,708	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	247,238	247,238	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	2,440	2,440	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	246,879	246,879	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	47,454	47,454	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	3,501	3,501	5/1
K-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	270,926	270,926	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	30,102	30,102	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	7,908	7,908	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	25,962	25,962	5/1
K-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	185,604	185,604	5/2
K-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	92,089	184,178	5/1
K-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	65,839	131,678	5/1
K-7	Dismantling of the existing devices		station	1	19,021	19,021	5/1
K-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	16,947	16,947	5/1
K-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	121,741	121,741	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	129	129	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	10,394	10,394	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	15,817	15,817	5/1
K-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	27,431	27,431	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	3,047	3,047	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	2,217	2,217	5/1
K-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	6,411	12,822	5/1
K-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	7,022	14,044	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
K-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	3,285	3,285	5/1
L.Interlocking of the Subotica station and interstation distance belong to the Subotica							
L-1	Indoor equipment in stations						
1	CBI (including Electronic automatic blocking device, optical cable termination frame, safety interface, and indoor equipment in stations constituting the automatic block on the open line)-hardware	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc. Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 . Optical cable termination frame (3OKP=ODF) Safety interface - the item includes all necessary interface elements required for traffic operations on the single track. Indoor equipment in stations constituting the automatic block on the open line	station	1	10,323,768	10,323,768	5/1
2	CBI-software	Software of CBI system	station	1	2,580,636	2,580,636	5/1
3	CTC-hardware	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	station	1	955,834	955,834	5/1
4	CTC-software	Software of CTC system	station	1	238,958	238,958	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	station	1	1,021,458	1,021,458	5/1
6	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	station	1	102,582	102,582	5/1
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	station	1	53,100	53,100	5/1
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	station	1	4,826	4,826	5/1
9	Power Panel	Station power panel provided with switches, converters, and etc.	station	1	1,048,401	1,048,401	5/1
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	station	1	1,137,468	1,137,468	5/1
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	station	1	45,255	45,255	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	station	1	181,028	181,028	5/1
L-2	Outdoor equipment in stations					-	
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	2,974,365	2,974,365	5/1
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator,Derailing electric setting machine,Support of the derailing electric setting machine,Derailment head,Derailment sign indicator	station	1	2,418,178	2,418,178	5/1
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	270,246	270,246	5/1
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	1,430,455	1,430,455	5/1
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	14,119	14,119	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		station	1	1,428,373	1,428,373	5/1
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	274,560	274,560	5/1
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	20,265	20,265	5/1
L-3	cables, cable assecories and grounding system in station					-	
1	Cables	Cable,Single mode optical cable	station	1	1,567,499	1,567,499	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	174,166	174,166	5/1
3	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	45,759	45,759	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	150,217	150,217	5/1
L-4	Installation of indoor equipment in stations	Installation of indoor equipment in stations	station	1	1,073,856	1,073,856	5/2
L-5	Installation of outdoor equipment in stations	Installation of outdoor equipment in stations	Completion of the works for the left or right side of the station	2	532,806	1,065,612	5/1
L-6	installation of cables, cable assecories and grounding system in the station	Installation of cables, cable assecories and grounding system in stations	Completion of the works for the left or right side of the station	2	380,927	761,854	5/1
L-7	Dismantling of the existing devices and installing temporary interlocking in the course of works in the stations	Dismantling of the existing interlocking devices,Installing of temporary interlocking and dismantling of temporary interlocking.	station	1	1,100,556	1,100,556	5/1
L-8	Indoor equipment in stations constituting the automatic block on the open line	Indoor equipment in stations constituting the automatic block on the open line	station	1	98,056	98,056	5/1
L-9	Outdoor equipment in the open line	Outdoor equipment in the open line				-	
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	openline	1	704,365	704,365	5/1
2	Concrete foundation	Concrete foundation for cabinets	openline	1	753	753	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		openline	1	60,141	60,141	5/1
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		openline	1	91,519	91,519	5/1
L-10	cables, cable assecories and grounding system in the open line					-	
1	Cables	Cable,Single mode optical cable	openline	1	158,712	158,712	5/1
2	cable accessries	Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	openline	1	17,634	17,634	5/1
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	openline	1	12,831	12,831	5/1
L-11	Installation of outdoor equipment in the open line	Installation of outdoor equipment in the open line	Completion of the works on left or right track	2	37,098	74,196	5/1
L-12	laying of cables, cable accessories and grounding system on interstation distance	laying of cables, cable accessories and grounding system on interstation distance	Completion of the works on left or right track	2	40,632	81,264	5/1

10. Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
L-13	Dismantling of the existing devices in the open line	Dismantling of the existing devices in the open line	openline	1	19,007	19,007	5/1
M.Equipment and works in Centralized Traffic Control Center and ETCS-L2 system							
M-1	ETCS-L2 indoor quipment						
1	Radio block center (RBC)	including RBC and temporary speed restriction functions	set	1	5,603,806	5,603,806	5/2
2	Devices for creation of indoor LAN for RBC, including communication devices for their connection to the lineside optical cable and vital signaling/interlocking network .		set	1	181,556	181,556	5/2
3	Balise data preparation		Completion of the works	1	560,701	560,701	5/2
4	Adjusting chainage specified in the ETCS system with the on site chainage		Completion of the works	1	281,830	281,830	5/2
M-2	ETCS-L2 line side devices in stations and interstation distance		Completion of the works	1	6,991,240	6,991,240	5/2
M-3	Others		station	12	5,288	63,456	5/2
Summary (USD):						**116,510,191**	

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Draft line side copper cables						
1	New line side cable STA-PV-Material	Station channel,Sand,Cable,etc. Placing the station channel, Filling the channel with sand, Building the structure for placing the optic fiber joint, etc.	Completion of the procument	1	5,704,858	5,704,858	5/3
2	New line side cable STA-PV-Work	Laying of STA-V cable in channel/duct, pulling through the pipes of passage under the tracks, pulling through the channel tubes, leading in buildings	Completion of the works	1	398,103	398,103	5/3
3	Total Relocation of existing line side cable Naumovicevo - Subotica - Material	Station channel,Cable,Cable head， etc.	Completion of the procument	1	205,326	205,326	5/3
4	Total Relocation of existing line side cable Naumovicevo - Subotica - Works	Laying of STA-PV cable in channel/duct, pulling through the pipes of passage under the tracks, pulling through the channel tubes, leading in buildings	Completion of the works	1	22,329	22,329	5/3
B	Dispatching and railway devices and local cable networks						
1	Central dispatch device-Material	Central traffic dispatch device fully equipped with translators and transformers	set	1	282,880	282,880	5/4
2	Central dispatch device-Work	Installation, measuring, testing and commissioning of the central traffic dispatcher system (central traffic dispatch device, central optic device,…)	set	1	37,212	37,212	5/4
3	Station dispatch device-Novi Sad	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	250,404	250,404	5/4
4	Station dispatch device-Sajlovo	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	209,086	209,086	5/4
5	Station dispatch device-Rumenka	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	202,000	202,000	5/4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Station dispatch device-Kisac	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	189,504	189,504	5/4
7	Station dispatch device-Stepanovicevo	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	188,730	188,730	5/4
8	Station dispatch device-Zmajevo	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	189,504	189,504	5/4
9	Station dispatch device-Vrbas Nova	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	214,567	214,567	5/4
10	Station dispatch device-Lovcenac - Mali Idjos Polje	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	188,730	188,730	5/4
11	Station dispatch device-Backa Topola	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	207,288	207,288	5/4
12	Station dispatch device-Zednik	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	189,504	189,504	5/4
13	Station dispatch device-Naumovicevo	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	195,979	195,979	5/4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
14	Station dispatch device-Aleksandrovo	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	2,763	2,763	5/4
15	Station dispatch device-Subotica	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	325,131	325,131	5/4
16	Station dispatch device-Border	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	123,584	123,584	5/4
17	Station dispatch device-Stations that are being abolished	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	2,706	2,706	5/4
18	System in ETS, TSP and TSPn-ETS Novi Sad	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	4,620	4,620	5/4
19	System in ETS, TSP and TSPn-TSP Kisac	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	2,782	2,782	5/4
20	System in ETS, TSP and TSPn-TSPn Zmajevo	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	2,782	2,782	5/4
21	System in ETS, TSP and TSPn-ETS Vrbas	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	4,426	4,426	5/4
22	System in ETS, TSP and TSPn-TSP Lovcenac - Mali Idjos Polje	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	2,782	2,782	5/4
23	System in ETS, TSP and TSPn-TSPn Backa Topola	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	2,782	2,782	5/4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
24	System in ETS, TSP and TSPn-TSP Zednik	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	2,782	2,782	5/4
25	System in ETS, TSP and TSPn-ETS Subotica	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	4,039	4,039	5/4
26	System in ETS, TSP and TSPn-TSP Subotica	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	2,782	2,782	5/4
27	System in ETS, TSP and TSPn-TSPn Border	Construction for terminal box and terminal strips, comprising terminal box, terminal strips and all grounding equipment	set	1	2,782	2,782	5/4
28	APB Telephones-Material	Self standing cabinet for terminal box and terminal strips, with post and foundation, complete with entire equipment and grounding strand L = 5 m/95 mm², with an eye Ø10 mm	set	1	834,723	834,723	5/4
29	APB Telephones-Work	Installation of AB telephone on the signal post, with installation of TK 59M cable	set	1	97,003	97,003	5/4
30	Temporary radio network	Measuring and testing of the GSM-R locations，Commissioning of all equipment，Tools for RNP & RNO，Global Acceptance & Verification etc.	set	1	48,327	48,327	5/4
31	Local network - material	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	394,357	394,357	5/4
32	Local network - works	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	125,652	125,652	5/4
33	Relocation and protection of existing local netwrok	Station channel,Sand,Cable,etc. Placing the station channel, Filling the channel with sand, Building the structure for placing the optic fiber joint, etc.	set	1	52,194	52,194	5/4
34	Vocice recorder- material	24 channel computer based voice recorder	set	1	46,394	46,394	5/4
35	Vocice recorder- Work	Installation of the voice recorder with connection	set	1	3,865	3,865	5/4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
36	Transmission system	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	433,020	433,020	5/4
37	Interface to the existing ŽAT	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	1,609,327	1,609,327	5/4
C	Optical cables and transition system of noncritical systems						
1	Cable route - Material	Cable support for mounting of cable joints, cable reserves inside station building or in telecommunication manholes, in a set with bolts, expanding anchors and other required materials.	set	1	261,645	261,645	5/5
2	Cable route - Work	Laying of HDPE tubes Ø40 pipes in previously prepared routes - concrete duct, passages in bridge/overbridge/culvert structures, pipes under tracks, cable conduits, trench...	set	1	161,721	161,721	5/5
3	Civil works on Cable route for optical cables laying to ETS NOVI SAD and ETS VRBAS - Material	Sand fro spreading under laid pipes and ducts, as well as inside ducts	set	1	18,825	18,825	5/5
4	Civil works on Cable route for optical cables laying to ETS NOVI SAD and ETS VRBAS - Work	Detecting the route of the existing cable with a cable locator, laying and marking of the route for laying of new pipes along the route of the existing cable.	set	1	95,025	95,025	5/5
5	Cable plant - Material	OPTICAL CABLES and Optic distributor for 288 fibres. (Vrbas Nova - SS and TT and Subotica - SS and TT) of appropriate dimensions with the required number of entries, door, safety lock, patch panels, splicing modules, fibre guides, E-2000/ APC adapters and pigtails, spools for cable guiding and set of installation materials	set	1	1,138,175	1,138,175	5/5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Cable plant - Work	Installation of OPTICAL CABLES and optical distributor for 288 fibres with the instalation of splice trays and termination enclosures, sppols for cable surplus length - complete mechanical assembly	set	1	555,826	555,826	5/5
7	Equipment for optical infrastructure maintenance-Material	OTDR	set	1	77,848	77,848	5/5
8	Subregional station equipment-Novi Sad	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	160,649	160,649	5/5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	Subregional station equipment-Vrbas	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	103,406	103,406	5/5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
10	Subregional station equipment-Backa Topola	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	103,406	103,406	5-5-2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Subregional station equipment-Subotica	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	160,310	160,310	5/5
12	Entire section	NMS operator equipment. It includes two workstations with two 32 " monitors for each .	set	1	460,728	460,728	5/5
D	Design of telecommunication System in stations and stopping places						
D-1	Index volume						
1	Dismantling of the existing systems-Work	Dismantling of parts of the existing telecommunications systems in the buildings that are reconstructed and handing over to the Client in the present state.	set	1	3,408	3,408	5/6.1
2	Common communication network-Work	Dismantling of parts of the existing telecommunications systems in the buildings that are reconstructed and handing over to the Client in the present state.	set	1	1,885,666	1,885,666	5/6.1

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Common communication network-Material	Commissioning of all equipment (basic functionality with check of all points of the network) - for the entire section Integration of equipment (basic functionality with check of all points of the network) and testing for the Owner /Investor's basic acceptance - for the entire section Optimization and additional features integration - for the entire section Global acceptance and verification - for the entire section User training (for the entire sectio) Designing and preparation of documentation (for the entire section)	set	1	300,590	300,590	5/6.1
4	VoIP communication system-Work	Freestanding 42U rack dimensions 1970x800x1000mm with front rails 19 ", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	1,542,452	1,542,452	5/6.1
5	VoIP communication system-Material	Assembly and installation of freestanding 19" rack 42U with installation and connection of equipment	set	1	188,505	188,505	5/6.1

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Video surveillance system-Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	287,856	287,856	5/6.1
7	Video surveillance system-Material	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	760,141	760,141	5/6.1
8	Public address system-Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	239,880	239,880	5/6.1
9	Public address system-Material	Software for identifying, calling, controlling BGM and volume, time synchronization of all clients, connecting to zones and connecting to network controller. Controls multiple network controllers in extended systems by making audio connections between network controllers. Controllers can be configured by this software to enable calls from one network to another. Allows zone confirmation and reset in case of fire, time synchronization and license control. Supports work on Windows 7 and XP, Windows Vista platforms. Controls access to users with different types of access, (PRS-SWCS PC Call Server or equivalent)	set	1	72,175	72,175	5/6.1
10	Clock system-Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	55,192	55,192	5/6.1
11	Clock system-Material	Software for remote monitoring and management of the system.	set	1	50,945	50,945	5/6.1

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Information display system-Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	239,880	239,880	5/6.1
13	Information display system-Material	NMS operator equipment. It includes two workstations with two 32 " monitors for each.	set	1	50,945	50,945	5/6.1
14	Software package avis-Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	239,880	239,880	5/6.1
15	Software package avis-Material	NMS operator equipment. It includes two workstations with two 32 " monitors for each.	set	1	50,945	50,945	5/6.1
16	Integration of security systems -Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	239,880	239,880	5/6.1
17	Integration of security systems -Material	License for interconnection of integration software with video management software. (compatible with the planned security system in the central station - ownership of the ISR) (BIS-FGEN-BVMS45 or equivalent)	set	1	128,853	128,853	5/6.1
18	Enviromental monitoring system-Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	239,880	239,880	5/6.1
19	Enviromental monitoring system-Material	A server with software that enables centralized management and control of systems in certain locations. Expandable system, initially for 25 devices. (StruxureWare or equivalent)	set	1	175,132	175,132	5/6.1

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
20	SOS system-Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	60,626	60,626	5/6.1
21	SOS system-Material	Software that enables control and management of the system on the part of the section. Installation on the workstation	set	1	65,517	65,517	5/6.1
22	Automatic fire detection (AFD-FAS)-Work	System configuration, issuing of attestation and Commissioning (for the whole section) User training (for the entire section) Designing and preparation of documentation (for the entire section)	set	1	197,422	197,422	5/6.1
23	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment. It includes two workstations with two 32 " monitors for each.	set	1	50,945	50,945	5/6.1
D-2	Location NOVI SAD						
1	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	60,626	60,626	5/6.2
2	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	64,214	64,214	5/6.2
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	1,664,498	1,664,498	5/6.2
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	134,536	134,536	5/6.2
5	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	70,688	70,688	5/6.2
6	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	20,376	20,376	5/6.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	529,557	529,557	5/6.2
8	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	41,584	41,584	5/6.2
9	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	206,606	206,606	5/6.2
10	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	9,727	9,727	5/6.2
11	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	104,293	104,293	5/6.2
12	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	9,403	9,403	5/6.2
13	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	280,541	280,541	5/6.2
14	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	5,103	5,103	5/6.2
15	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	5,628	5,628	5/6.2
16	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	1,484	1,484	5/6.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
17	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	9,274	9,274	5/6.2
18	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	1,677	1,677	5/6.2
19	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	220,412	220,412	5/6.2
20	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	108,818	108,818	5/6.2
21	Fixed fire alarm system with fire existinguishing management -Material	Subsystem central unit for fire alarming and fire exstinguishing management. Conventional optical smoke detector. Manual call point for stopping. Installation pipes. Laying cables. Mounting and connection of subsystem central unit.	set	1	40,580	40,580	5/6.2
22	Fixed fire alarm system with fire existinguishing management -Work	Subsystem central unit for fire alarming and fire exstinguishing management. Conventional optical smoke detector. Manual call point for stopping. Installation pipes. Laying cables. Mounting and connection of subsystem central unit.	set	1	5,274	5,274	5/6.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
23	SOS system-Material	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	1,575	1,575	5/6.2
24	SOS system-Work	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	542	542	5/6.2
25	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	2,617	2,617	5/6.2
26	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	528	528	5/6.2
27	Two-way communication microphone system-Material	Set for hands-free two-way communication on counters composed of central unit and sub unit. Adapted to integrated with induction loop system for hearing assistance . In a set with power unit and all installation cable and equipment. (ATEIS Magelan Compact or equivalent)	set	1	5,518	5,518	5/6.2
28	Two-way communication microphone system-Work	Mounting and connection of the equipment to the completed installation	set	1	1,695	1,695	5/6.2
29	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.2
30	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
31	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.2
32	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.2
33	Equipment for connection to existing intranet	Fiber optic patch panel (drawer) and box 19", 1HU, equipped with a splice cassette for up to 24 fibers, together with accessories and with fiber optic E2000/APC SM pigtails 2m long, with 12 E2000/APC compact adapters	set	1	153,534	153,534	5/6.2
34	Equipment for connection to existing intranet	Installation and connection of active network equipment with all necessary equipment	set	1	2,544	2,544	5/6.2
35	Subregional station equipment - Common communication network - Material	Freestanding 42U rack dimensions,TOR DC switch. Assembly and installation of freestanding rack.	set	1	19,830	19,830	5/6.2
36	Subregional station equipment - Common communication network - Work	Assembly and installation of freestanding 19" rack 42U with installation and connection of equipment	set	1	3,564	3,564	5/6.2
37	Subregional station equipment - Video surveillance system-Material	Network storage device,Client video monitoring work station,Professional monitor for video surveillance systems,etc. Mounting and connection of the workstation,Mounting and connection of the monitor,Mounting and connection of the storage.	set	1	446,575	446,575	5/6.2
38	Subregional station equipment - Video surveillance system-Work	Mounting and connection of the storage device to cable installation	set	1	1,270	1,270	5/6.2

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
39	Subregional station equipment - Public address system-Material	Call station,Keypad for the call station,Network audio controller,etc. Mounting and connection of the call station,Mounting and connection of the network,Measuring and testing,etc.	set	1	32,381	32,381	5/6.2
40	Subregional station equipment - Public address system-Work	Mounting and connection of the call station and keypads to the cable installation	set	1	1,070	1,070	5/6.2
41	Subregional station equipment - Enviromental monitoring system-Material	Workstations with two 32 " monitors for each On-duty staff room	set	1	6,366	6,366	5/6.2
42	Subregional station equipment - Integration of security systems-Material	Workstations with two 32 " monitors for each On-duty staff room	set	1	8,309	8,309	5/6.2
D-3	Location SAJLOVO						
1	Main cable routes - Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	10,913	10,913	5/6.3
2	Main cable routes - Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	12,689	12,689	5/6.3
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	64,579	64,579	5/6.3
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	11,766	11,766	5/6.3
5	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.3
6	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	51,165	51,165	5/6.3
8	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	2,773	2,773	5/6.3
9	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	3,002	3,002	5/6.3
10	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	379	379	5/6.3
11	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	14,103	14,103	5/6.3
12	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	3,394	3,394	5/6.3
13	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	16,057	16,057	5/6.3
14	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,859	2,859	5/6.3
15	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	38,064	38,064	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
16	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	11,587	11,587	5/6.3
17	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.3
18	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.3
19	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.3
20	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.3
D-4	Automatic fire detection						
1	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	14,616	14,616	5/6.3
2	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	5,601	5,601	5/6.3
D-5	Location RUMENKA						
1	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	10,913	10,913	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	12,689	12,689	5/6.3
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	64,579	64,579	5/6.3
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	11,766	11,766	5/6.3
5	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.3
6	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.3
7	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	51,165	51,165	5/6.3
8	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	2,773	2,773	5/6.3
9	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	3,002	3,002	5/6.3
10	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	379	379	5/6.3
11	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	14,103	14,103	5/6.3
12	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	3,394	3,394	5/6.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	16,057	16,057	5/6.3
14	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,859	2,859	5/6.3
15	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	37,810	37,810	5/6.3
16	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	11,483	11,483	5/6.3
17	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.3
18	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.3
19	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.3
20	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
D-6	Location KISAC						
1	Dismantling of the existing systems-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	2,120	2,120	5/6.3
2	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	13,541	13,541	5/6.3
3	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	16,386	16,386	5/6.3
4	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	241,738	241,738	5/6.3
5	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	43,201	43,201	5/6.3
6	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.3
7	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.3
8	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	218,528	218,528	5/6.3
9	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	14,696	14,696	5/6.3
10	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	111,553	111,553	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	7,773	7,773	5/6.3
12	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	66,272	66,272	5/6.3
13	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	5,198	5,198	5/6.3
14	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	178,444	178,444	5/6.3
15	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	1,654	1,654	5/6.3
16	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	18,129	18,129	5/6.3
17	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	4,350	4,350	5/6.3
18	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	16,740	16,740	5/6.3
19	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,998	2,998	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
20	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	42,263	42,263	5/6.3
21	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	13,655	13,655	5/6.3
22	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.3
23	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.3
24	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.3
25	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.3
26	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.3
27	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.3
D-7	Location STEPANOVICEVO						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	13,881	13,881	5/6.3
3	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	16,365	16,365	5/6.3
4	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	249,801	249,801	5/6.3
5	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	47,370	47,370	5/6.3
6	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.3
7	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.3
8	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	220,899	220,899	5/6.3
9	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	14,785	14,785	5/6.3
10	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	125,174	125,174	5/6.3
11	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	11,771	11,771	5/6.3
12	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	65,414	65,414	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	5,072	5,072	5/6.3
14	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	192,995	192,995	5/6.3
15	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	3,447	3,447	5/6.3
16	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	14,159	14,159	5/6.3
17	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	3,416	3,416	5/6.3
18	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	16,057	16,057	5/6.3
19	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,859	2,859	5/6.3
20	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	39,009	39,009	5/6.3
21	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	12,399	12,399	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
22	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.3
23	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.3
24	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.3
25	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.3
26	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.3
27	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.3
D-8	Location ZMAJEVO						
1	Dismantling of the existing systems-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	2,120	2,120	5/6.3
2	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	12,862	12,862	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	14,688	14,688	5/6.3
4	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	245,916	245,916	5/6.3
5	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	44,482	44,482	5/6.3
6	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.3
7	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.3
8	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	218,815	218,815	5/6.3
9	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	14,722	14,722	5/6.3
10	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	114,750	114,750	5/6.3
11	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	9,450	9,450	5/6.3
12	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	56,720	56,720	5/6.3
13	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	4,499	4,499	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
14	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	185,778	185,778	5/6.3
15	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	2,322	2,322	5/6.3
16	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	18,129	18,129	5/6.3
17	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	4,350	4,350	5/6.3
18	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	16,613	16,613	5/6.3
19	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,944	2,944	5/6.3
20	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	42,519	42,519	5/6.3
21	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	13,675	13,675	5/6.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
22	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.3
23	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.3
24	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.3
25	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.3
26	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.3
27	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.3
D-9	Location VRBAS						
1	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	25,132	25,132	5/6.4
2	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	31,650	31,650	5/6.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	441,466	441,466	5/6.4
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	65,546	65,546	5/6.4
5	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	50,703	50,703	5/6.4
6	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	20,376	20,376	5/6.4
7	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	279,596	279,596	5/6.4
8	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	21,447	21,447	5/6.4
9	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	105,503	105,503	5/6.4
10	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	8,968	8,968	5/6.4
11	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	109,641	109,641	5/6.4
12	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	8,766	8,766	5/6.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	331,416	331,416	5/6.4
14	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	5,379	5,379	5/6.4
15	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	18,129	18,129	5/6.4
16	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	4,350	4,350	5/6.4
17	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	22,908	22,908	5/6.4
18	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	4,161	4,161	5/6.4
19	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	71,263	71,263	5/6.4
20	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	18,471	18,471	5/6.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
21	SOS system-Material	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	1,614	1,614	5/6.4
22	SOS system-Work	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	550	550	5/6.4
23	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	8,975	8,975	5/6.4
24	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.4
25	Two-way communication microphone system-Material	Set for hands-free two-way communication on counters composed of central unit and sub unit. Adapted to integrated with induction loop system for hearing assistance . In a set with power unit and all installation cable and equipment. (ATEIS Magelan Compact or equivalent)	set	1	5,518	5,518	5/6.4
26	Two-way communication microphone system-Work	Mounting and connection of the equipment to the completed installation	set	1	1,695	1,695	5/6.4
27	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.4
28	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
29	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.4
30	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.4
31	Subregional station equipment - Common communication network - Material	Freestanding 42U rack dimensions,TOR DC switch. Assembly and installation of freestanding rack.	set	1	9,914	9,914	5/6.4
32	Subregional station equipment - Common communication network - Work	Assembly and installation of freestanding 19" rack 42U with installation and connection of equipment	set	1	3,564	3,564	5/6.4
33	Subregional station equipment - Video surveillance system-Material	Network storage device,Client video monitoring work station,Professional monitor for video surveillance systems,etc. Mounting and connection of the workstation,Mounting and connection of the monitor,Mounting and connection of the storage.	set	1	278,445	278,445	5/6.4
34	Subregional station equipment - Video surveillance system-Work	Mounting and connection of the storage device to cable installation	set	1	888	888	5/6.4
35	Subregional station equipment - Public address system-Material	Call station,Keypad for the call station,Network audio controller,etc. Mounting and connection of the call station,Mounting and connection of the network,Measuring and testing,etc.	set	1	32,381	32,381	5/6.4
36	Subregional station equipment - Public address system-Work	Mounting and connection of the call station and keypads to the cable installation	set	1	1,070	1,070	5/6.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
37	Subregional station equipment - Enviromental monitoring system-Material	Workstations with two 32 " monitors for each On-duty staff room	set	1	6,366	6,366	5/6.4
38	Subregional station equipment - Integration of security systems-Material	Workstations with two 32 " monitors for each On-duty staff room	set	1	8,309	8,309	5/6.4
D-10	INFORMATION-COMMUNICATION AND DETECTION systems - Location VRBAS						
1	Dismantling of the existing systems-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	2,120	2,120	5/6.4
2	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	13,541	13,541	5/6.4
3	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	16,386	16,386	5/6.4
4	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	87,165	87,165	5/6.4
5	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	29,649	29,649	5/6.4
6	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.4
7	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.4
8	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	66,272	66,272	5/6.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	5,198	5,198	5/6.4
10	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	178,444	178,444	5/6.4
11	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	1,654	1,654	5/6.4
12	SOS system-Material	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	20,088	20,088	5/6.4
13	SOS system-Work	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	3,597	3,597	5/6.4
14	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	42,263	42,263	5/6.4
15	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	13,655	13,655	5/6.4
16	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
17	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.4
18	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.4
19	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.4
20	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.4
21	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.4
D-11	Location LOVCENAC - MALI IDJOS						
1	Dismantling of the existing systems-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	2,120	2,120	5/6.5
2	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	11,503	11,503	5/6.5
3	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	16,386	16,386	5/6.5
4	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	246,007	246,007	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	43,201	43,201	5/6.5
6	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.5
7	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.5
8	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	219,836	219,836	5/6.5
9	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	14,696	14,696	5/6.5
10	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	111,553	111,553	5/6.5
11	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	7,773	7,773	5/6.5
12	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	65,286	65,286	5/6.5
13	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	5,198	5,198	5/6.5
14	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	194,789	194,789	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
15	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	1,654	1,654	5/6.5
16	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	15,870	15,870	5/6.5
17	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	5,220	5,220	5/6.5
18	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	15,920	15,920	5/6.5
19	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,998	2,998	5/6.5
20	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	39,372	39,372	5/6.5
21	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	13,655	13,655	5/6.5
22	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
23	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.5
24	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.5
25	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.5
26	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.5
27	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.5
D-12	Location BACKA TOPOLA						
1	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	23,030	23,030	5/6.5
2	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	31,119	31,119	5/6.5
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	481,365	481,365	5/6.5
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	58,566	58,566	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	50,703	50,703	5/6.5
6	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	6,366	6,366	5/6.5
7	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	378,150	378,150	5/6.5
8	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	27,394	27,394	5/6.5
9	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	189,048	189,048	5/6.5
10	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	12,564	12,564	5/6.5
11	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	90,537	90,537	5/6.5
12	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	7,364	7,364	5/6.5
13	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	302,195	302,195	5/6.5
14	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	2,831	2,831	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
15	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	26,838	26,838	5/6.5
16	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	6,366	6,366	5/6.5
17	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	20,702	20,702	5/6.5
18	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	3,658	3,658	5/6.5
19	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	66,634	66,634	5/6.5
20	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	17,110	17,110	5/6.5
23	SOS system-Material	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	1,614	1,614	5/6.5
24	SOS system-Work	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	550	550	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
25	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	8,444	8,444	5/6.5
26	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	1,272	1,272	5/6.5
27	Two-way communication microphone system-Material	Set for hands-free two-way communication on counters composed of central unit and sub unit. Adapted to integrated with induction loop system for hearing assistance . In a set with power unit and all installation cable and equipment. (ATEIS Magelan Compact or equivalent)	set	1	5,518	5,518	5/6.5
28	Two-way communication microphone system-Work	Mounting and connection of the equipment to the completed installation	set	1	1,695	1,695	5/6.5
29	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.5
30	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.5
31	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.5
32	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
35	Subregional station equipment - Common communication network - Material	Freestanding 42U rack dimensions,TOR DC switch. Assembly and installation of freestanding rack.	set	1	9,914	9,914	5/6.5
36	Subregional station equipment - Common communication network - Work	Assembly and installation of freestanding 19" rack 42U with installation and connection of equipment	set	1	3,564	3,564	5/6.5
37	Subregional station equipment - Video surveillance system-Material	Network storage device,Client video monitoring work station,Professional monitor for video surveillance systems,etc. Mounting and connection of the workstation,Mounting and connection of the monitor,Mounting and connection of the storage.	set	1	278,445	278,445	5/6.5
38	Subregional station equipment - Video surveillance system-Work	Mounting and connection of the storage device to cable installation	set	1	888	888	5/6.5
39	Subregional station equipment - Public address system-Material	Call station,Keypad for the call station,Network audio controller,etc. Mounting and connection of the call station,Mounting and connection of the network,Measuring and testing,etc.	set	1	32,381	32,381	5/6.5
40	Subregional station equipment - Public address system-Work	Mounting and connection of the call station and keypads to the cable installation	set	1	1,070	1,070	5/6.5
41	Subregional station equipment - Enviromental monitoring system-Material	Workstations with two 32 " monitors for each On-duty staff room	set	1	6,366	6,366	5/6.5
42	Subregional station equipment - Integration of security systems-Material	Workstations with two 32 " monitors for each On-duty staff room	set	1	8,309	8,309	5/6.5
D-13	Location ZEDNIK						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Dismantling of the existing systems-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	2,120	2,120	5/6.5
2	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	12,120	12,120	5/6.5
3	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	14,645	14,645	5/6.5
4	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	247,408	247,408	5/6.5
5	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	43,201	43,201	5/6.5
6	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.5
7	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.5
8	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	220,941	220,941	5/6.5
9	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	14,696	14,696	5/6.5
10	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	109,379	109,379	5/6.5
11	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	7,773	7,773	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	66,272	66,272	5/6.5
13	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	5,198	5,198	5/6.5
14	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	178,444	178,444	5/6.5
15	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	1,654	1,654	5/6.5
16	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	18,968	18,968	5/6.5
17	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	4,350	4,350	5/6.5
18	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	16,475	16,475	5/6.5
19	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,998	2,998	5/6.5
20	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	43,010	43,010	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
21	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	13,655	13,655	5/6.5
22	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.5
23	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.5
24	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.5
25	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.5
26	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.5
27	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.5
D-14	Location NAUMOVICEVO						
1	Dismantling of the existing systems-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	2,120	2,120	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	10,612	10,612	5/6.5
3	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	16,386	16,386	5/6.5
4	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	247,106	247,106	5/6.5
5	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	43,201	43,201	5/6.5
6	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	3,807	3,807	5/6.5
7	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,799	2,799	5/6.5
8	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	227,275	227,275	5/6.5
9	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	14,696	14,696	5/6.5
10	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	112,775	112,775	5/6.5
11	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	7,773	7,773	5/6.5
12	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	66,272	66,272	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	5,198	5,198	5/6.5
14	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	193,134	193,134	5/6.5
15	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	1,654	1,654	5/6.5
16	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	15,141	15,141	5/6.5
17	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	4,350	4,350	5/6.5
18	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	16,955	16,955	5/6.5
19	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,998	2,998	5/6.5
20	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	39,455	39,455	5/6.5
21	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	13,655	13,655	5/6.5

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
22	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	5,826	5,826	5/6.5
23	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.5
24	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.5
25	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.5
26	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.5
27	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.5
D-15	Location SUBOTICA						
1	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	72,514	72,514	5/6.6
2	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	93,934	93,934	5/6.6

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	901,179	901,179	5/6.6
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	266,048	266,048	5/6.6
5	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	84,061	84,061	5/6.6
6	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	20,376	20,376	5/6.6
7	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	388,669	388,669	5/6.6
8	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	28,515	28,515	5/6.6
9	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	206,932	206,932	5/6.6
10	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	9,889	9,889	5/6.6
11	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	103,401	103,401	5/6.6
12	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	9,614	9,614	5/6.6

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Information display system-Material	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	211,178	211,178	5/6.6
14	Information display system-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	4,732	4,732	5/6.6
15	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	16,530	16,530	5/6.6
16	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	4,031	4,031	5/6.6
17	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	14,740	14,740	5/6.6
18	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	2,944	2,944	5/6.6
19	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	372,281	372,281	5/6.6
20	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	15,655	15,655	5/6.6

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
21	Fixed fire alarm system with fire existinguishing management -Material	Subsystem central unit for fire alarming and fire exstinguishing management. Conventional optical smoke detector. Manual call point for stopping. Installation pipes. Laying cables. Mounting and connection of subsystem central unit.	set	1	58,291	58,291	5/6.6
22	Fixed fire alarm system with fire existinguishing management -Work	Subsystem central unit for fire alarming and fire exstinguishing management. Conventional optical smoke detector. Manual call point for stopping. Installation pipes. Laying cables. Mounting and connection of subsystem central unit.	set	1	7,092	7,092	5/6.6
23	SOS system-Material	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	1,575	1,575	5/6.6
24	SOS system-Work	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	542	542	5/6.6
25	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	2,617	2,617	5/6.6
26	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	528	528	5/6.6

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
27	Two-way communication microphone system-Material	Set for hands-free two-way communication on counters composed of central unit and sub unit. Adapted to integrated with induction loop system for hearing assistance . In a set with power unit and all installation cable and equipment. (ATEIS Magelan Compact or equivalent)	set	1	5,518	5,518	5/6.6
28	Two-way communication microphone system-Work	Mounting and connection of the equipment to the completed installation	set	1	1,695	1,695	5/6.6
29	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.6
30	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.6
31	Entry of the cablesowned by Telekom Srbija a.d.-Material	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	931	931	5/6.6
32	Entry of the cablesowned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	867	867	5/6.6
35	Subregional station equipment - Common communication network - Material	Freestanding 42U rack dimensions,TOR DC switch. Assembly and installation of freestanding rack.	set	1	19,830	19,830	5/6.6
36	Subregional station equipment - Common communication network - Work	Assembly and installation of freestanding 19" rack 42U with installation and connection of equipment	set	1	3,564	3,564	5/6.6

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
37	Subregional station equipment - Video surveillance system-Material	Network storage device,Client video monitoring work station,Professional monitor for video surveillance systems,etc. Mounting and connection of the workstation,Mounting and connection of the monitor,Mounting and connection of the storage.	set	1	502,617	502,617	5/6.6
38	Subregional station equipment - Video surveillance system-Work	Mounting and connection of the storage device to cable installation	set	1	1,399	1,399	5/6.6
39	Subregional station equipment - Public address system-Material	Call station,Keypad for the call station,Network audio controller,etc. Mounting and connection of the call station,Mounting and connection of the network,Measuring and testing,etc.	set	1	32,381	32,381	5/6.6
40	Subregional station equipment - Public address system-Work	Mounting and connection of the call station and keypads to the cable installation	set	1	1,070	1,070	5/6.6
41	Subregional station equipment - Enviromental monitoring system-Material	Workstations with two 32 " monitors for each On-duty staff room	set	1	6,366	6,366	5/6.6
42	Subregional station equipment - Integration of security systems-Material	Workstations with two 32 " monitors for each On-duty staff room	set	1	8,309	8,309	5/6.6
D-16	Location OF ELECTRIC POWER PLANTS (ETS, TSP and TSPN)						
1	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	4,499	4,499	5/6.7
2	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	8,489	8,489	5/6.7

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	37,376	37,376	5/6.7
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	5,562	5,562	5/6.7
5	VoIP communication system-Material	Local VoIP exchange for 200 "voice" users, expandable up to 1000. (eSpace U1960 or equivalent)	set	1	2,060	2,060	5/6.7
6	VoIP communication system-Work	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	set	1	2,034	2,034	5/6.7
7	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	34,357	34,357	5/6.7
8	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	2,620	2,620	5/6.7
9	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	1,281	1,281	5/6.7
10	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	125	125	5/6.7
11	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	8,318	8,318	5/6.7
12	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	2,174	2,174	5/6.7
13	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	10,244	10,244	5/6.7

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
14	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	1,809	1,809	5/6.7
15	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	17,244	17,244	5/6.7
16	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	3,200	3,200	5/6.7
D-17	OPEN GREEN FIELD Location						
1	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	3,882	3,882	5/6.8
2	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	2,043	2,043	5/6.8
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	43,696	43,696	5/6.8
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	6,433	6,433	5/6.8
5	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	12,129	12,129	5/6.8
6	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	1,170	1,170	5/6.8

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	Public address system-Material	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	57,928	57,928	5/6.8
8	Public address system-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	3,849	3,849	5/6.8
9	Clock system -Material	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	1,281	1,281	5/6.8
10	Clock system -Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	125	125	5/6.8
11	Access control system-Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	6,163	6,163	5/6.8
12	Access control system-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	1,526	1,526	5/6.8
13	Intrusion detection system-Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	9,339	9,339	5/6.8
14	Intrusion detection system-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	1,636	1,636	5/6.8
15	Automatic fire detection (AFD-FAS)-Material	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	19,457	19,457	5/6.8

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
16	Automatic fire detection (AFD-FAS)-Work	NMS operator equipment,System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	4,471	4,471	5/6.8
17	FIXED FIRE ALARM system WITH FIRE EXSTINGUISHING MANAGEMENT-Material	Subsystem central unit for fire alarming and fire exstinguishing management. Conventional optical smoke detector. Manual call point for stopping. Installation pipes. Laying cables. Mounting and connection of subsystem central unit.	set	1	24,694	24,694	5/6.8
18	FIXED FIRE ALARM system WITH FIRE EXSTINGUISHING MANAGEMENT-Work	Subsystem central unit for fire alarming and fire exstinguishing management. Conventional optical smoke detector. Manual call point for stopping. Installation pipes. Laying cables. Mounting and connection of subsystem central unit.	set	1	3,293	3,293	5/6.8
19	Enviromental monitoring system-Material	The central unit of the system with the necessary extensions for accepting all sensors (minimum 12 universal sensors). Equipped with temperature / humidity sensor. Supplied with power supply, equipment for installation in the cabinet and other equipment for installation and connection. (APC NetBotz 200, NBOD0150 or equivalent)	set	1	4,975	4,975	5/6.8
20	Enviromental monitoring system-Work	Mounting and connection of the equipment to the completed installation	set	1	740	740	5/6.8
21	Audio-visual-information software (AVIS)-Material	Procurement and delivery of the AVIS software package extension (compatible with the planned video management system in the central station - ownership of the Infrastructure of Serbian Railways)	set	1	14,858	14,858	5/6.8

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
22	Audio-visual-information software (AVIS)-Work	Procurement and delivery and installation of the AVIS software product expansion server. Minimum HP 16GB 2x300GB. Completed with Windows Server, sound cards, system cables and all necessary equipment.	set	1	52,006	52,006	5/6.8
D-18	CRITICAL Location						
1	Main cable routes-Material	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	420	420	5/6.9
2	Main cable routes-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	1,543	1,543	5/6.9
3	Common communication network-Material	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	40,419	40,419	5/6.9
4	Common communication network-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	2,544	2,544	5/6.9
5	Video surveillance system-Material	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	27,438	27,438	5/6.9
6	Video surveillance system-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	874	874	5/6.9
E	RADIO systems						
E-1	COMMON FOR THE WHOLE LINE						
1	Total Transmission system for critical services - COMMON FOR THE WHOLE LINE:	Extension of the NMS for transmission system for critical services	set	1	856,899	856,899	5/7.1

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total GSM-R system, eirene dispatching system, MONITROING system FOR Abis, A AND INTERFACE TOWARDS RBC - COMMON FOR THE WHOLE LINE:	Installation and connection of active system equipment with all necessary equipment - extension of the NMS for transmission system for critical services	set	1	11,772,578	11,772,578	5/7.1
3	Total EXISTING RADIO DISPATCHING system (RDV):	Extension of the BSCs for the GSM-R system	set	1	1,887,519	1,887,519	5/7.1
E-2	VRBAS RAILWAY STATION						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	9,839	9,839	5/7.1
2	Total Transmission system for critical services:	Installation of pipes in the wall / ceiling / suspended ceiling / raised floor, with chiseling the walls, punching holes, installing junction boxes.	set	1	188,892	188,892	5/7.1

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	67,965	67,965	5/7.1
E-3	NOVI SAD RAILWAY STATION						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total optical cables and cable routs:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	7,488	7,488	5/7.2
2	Total Transmission system for critical services:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	367,255	367,255	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.2
4	Total eirene dispatching system:	Station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	241,122	241,122	5/7.2
E-4	TSP NOVI SAD						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.2
2	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,285	1,285	5/7.2
3	Total TSP NOVI SAD:	Installation of 45x45mm adapter intended for mounting in parapet and/or flush wall mounted and/or floor socket and/or set, complete with a support for the installed module	set	1	137,068	137,068	5/7.2
E-5	SAJLOVO Location						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celling, cross-section of 200mm x 50mm.	set	1	4,598	4,598	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	186,174	186,174	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.2
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	61,653	61,653	5-7-2
E-6	RUMENKA RAILWAY STATION						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	4,598	4,598	5-7-2
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	186,174	186,174	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	265,698	265,698	5/7.2
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	61,653	61,653	5/7.2
E-7	KISAC RAILWAY STATION						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	4,598	4,598	5/7.2
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	186,174	186,174	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.2
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	61,653	61,653	5/7.2
E-8	TSP KISAC						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	728	728	5/7.2
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.2
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,057	1,057	5/7.2
E-9	STEPANOVICEVO RAILWAY STATION						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	4,598	4,598	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	186,174	186,174	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.2
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	61,653	61,653	5/7.2
E-10	ZMAJEVO RAILWAY STATION						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	4,598	4,598	5/7.2
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	189,109	189,109	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.2
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	61,653	61,653	5/7.2
E-11	TSPn ZMAJEVO						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	728	728	5/7.2
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.2
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,057	1,057	5/7.2
E-12	BACKO DOBRO POLJE Location						
1	Total optical cables and cable routs:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	2,610	2,610	5/7.2

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	166,161	166,161	5/7.2
3	Total GSM-R system:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	241,057	241,057	5/7.2
E-13	VRBAS NOVA RAILWAY STATION						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	9,839	9,839	5/7.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	370,831	370,831	5/7.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.3
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	78,820	78,820	5/7.3
E-14	ETS VRBAS						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	521	521	5/7.3
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.3
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,285	1,285	5/7.3
E-15	VRBAS ATAR Location						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	2,610	2,610	5/7.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with folowing equipment:	set	1	166,161	166,161	5/7.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	241,057	241,057	5/7.3
E-16	LOVCENAC RAILWAY STATION						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	4,598	4,598	5/7.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	186,174	186,174	5/7.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.3
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	61,653	61,653	5/7.3
E-17	TSP LOVCENAC						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	728	728	5/7.3
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.3
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,057	1,057	5/7.3
E-18	MALI IDOS Location						
1	Total optical cables and cable routs:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	2,610	2,610	5/7.3

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	166,161	166,161	5/7.3
3	Total GSM-R system:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	241,057	241,057	5/7.3
E-19	BACKA TOPOLA RAILWAY STATION						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	8,461	8,461	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	370,831	370,831	5/7.4
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	77,352	77,352	5/7.4
E-20	TSP BACKA TOPOLA						
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	728	728	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.4
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,057	1,057	5/7.4
E-21	MALI BEOGRAD Location						
1	Total optical cables and cable routs:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	2,610	2,610	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	166,161	166,161	5/7.4
3	Total GSM-R system:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	241,057	241,057	5/7.4
E-22	ZEDNIK RAILWAY STATION						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	4,598	4,598	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with folowing equipment:	set	1	186,174	186,174	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.4
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	61,653	61,653	5/7.4
E-23	TSP ZEDNIK						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	728	728	5/7.4
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.4
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,057	1,057	5/7.4
E-24	VERUSIC Location						
1	Total optical cables and cable routs:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	2,610	2,610	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	166,161	166,161	5/7.4
3	Total GSM-R system:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	241,057	241,057	5/7.4
E-25	NAUMOVICEVO RAILWAY STATION						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celiing, cross-section of 200mm x 50mm.	set	1	4,598	4,598	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet) Equipped with folowing equipment:	set	1	186,174	186,174	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min --112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	252,790	252,790	5/7.4
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	61,653	61,653	5/7.4
E-26	ETS SUBOTICA						

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	521	521	5/7.4
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.4
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,285	1,285	5/7.4
E-27	NOVI GRAD Location						
1	Total optical cables and cable routs:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	2,610	2,610	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	166,161	166,161	5/7.4
3	Total GSM-R system:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	253,964	253,964	5/7.4
E-28	SUBOTICA RAILWAY STATION						
1	Total optical cables and cable routs:	Perforated shielded cable tray made of steel sheet. Complete with mounting accessories and elements for horizontal and vertical turning and installation in suspended ceiling/celling, cross-section of 200mm x 50mm.	set	1	15,573	15,573	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Free-standing 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg (Schrack Technik DS42801X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	370,831	370,831	5/7.4
3	Total GSM-R system:	GSM-R base stationwith baseband unit and radio frequency module with min 2 TRXs. Equipped with cabinet dimensiones aproximatlly 900x600x450mm, power unit, and other nessesary equipment. Radio unit has min 2 CPRI ports and 2 RF ports, 50 ohm The static sensitivities of the TCH/FS channel are min –112.5 dBm. Maximum transmit power of the radio unit is up to 60 W BTS supports the active/active and active/standby feature with automatic switchover to a backup BTS and reuse of the same frequencies (single frequency double coverage). Power - 48V DC BTS3900, Huawei or equivalent	set	1	265,698	265,698	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Total eirene dispatching system:	Dispatcher/station dispatcher terminal with EIRENE funcionalities.. Equipped with operational console and audio module. Audio module is equipped with loudspeakers, microphone and headphones and PTT key. Equipped with adequate interfaces. Operational console (PC) with "touch" display, minimal charactersistics: Intel® Celeron® 1.6 GHz processor, 2GB DDR3L memory, 128GB SATA SSD, Intel HD Graphics 400, Full HD 1920 x 1080 @ 60Hz, 16:9 resolution, PCAP. Display min 14". Equipped with adequate software/s. Compatibile with central dispaching equipment. User interface sipports Serbian language. Compatibile with central dispatching equipment. 230V/AC power supply. (DICORA, Frequentis or equivalent)	set	1	193,024	193,024	5/7.4
E-29	TSP SUBOTICA						
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	728	728	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	162,310	162,310	5/7.4
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,057	1,057	5/7.4
E-30	STATE BORDER (KELEBIJA) Location						
1	Total optical cables and cable routs:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	2,610	2,610	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	166,161	166,161	5/7.4
3	Total GSM-R system:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	241,057	241,057	5/7.4
E-31	TSPn STATE BORDER (KELEBIJA)						
1	Total cable routes:	Halogen-free installation corrugated hose with all fittings and connecting elements and clamps (3 pcs/1m), (installation in the building), (Dietzel Univolt FX) or equivalent.	set	1	728	728	5/7.4

11.Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Total Transmission system for critical services:	Freestanding 42U rack - dimensions 2000x800x1000mm approximately, with front rails 19", IP30, front and rear metal perforated door with lock, demountable sides with lock, possibility of joining into one whole with another cabinet and galvanically connected metal elements for the needs of structural cabling, equipped with the following equipment: panel for roof / floor cable entry, rings for vertical management of cables from the front and back of the cabinets, mounting equipment sets, marking labels for patch and power cords, rails for equipotential bonding and power rails with minimum 16 shucko power plugs in metal housing with cable and switch, fixing equipment, equipment shelf, cabinet load 400kg. (Schrack Technik DS42808X-A + DSRT4281-- + DSRT4285-- with lock, DV900333-- x 2 pcs, IU070124 x 2 pcs, DBK24800--, DBKO8080--, DSSRA050-- or equivalnet)	set	1	163,092	163,092	5/7.4
3	Total Common communication network - pasive equipment:	- Modular patch panel 1HU for the installation of 24 RJ45 modules, equipped with RJ45 Cat.6A shielded micro jacks on the patch panel side (Schrack Technik HSER0240GS, HSEMRJ6GWA or equivalent)	set	1	1,095	1,095	5/7.4
F	Relocation and protection of telecommunications network		set	29	37,944	1,100,376	5/8
	Summary(USD)					71,650,868	

12. Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Thermotechnical instalations in station building Novi Sad						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	1,724,832	1,724,832	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	304,382	304,382	6/1
B	Thermotechnical instalations of traction substation building in Novi Sad train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	67,254	67,254	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	11,868	11,868	6/1
C	Thermotechnical instalations building for electrotechnical jobs in Novi Sad station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	13,795	13,795	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	2,434	2,434	6/1
D	Thermotechnical instalations of SS and TC buildings in Sajlovo station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	112,053	112,053	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	19,774	19,774	6/1
E	Thermotechnical instalations of SS and TC buildings in Rumenka station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	112,053	112,053	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	19,774	19,774	6/1
F	Thermotechnical instalations of SS and TC buildings in Kisač station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	89,313	89,313	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	15,761	15,761	6/1
G	Thermotechnical instalations for sectioning post in Kisač train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	53,231	53,231	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	9,393	9,393	6/1
H	Thermotechnical instalations of SS and TC buildings in Stepanovićevo station						

12. Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	117,409	117,409	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	20,719	20,719	6/1
I	Thermotechnical instalations of SS and TC buildings in Zmajevo station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	89,313	89,313	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	15,761	15,761	6/1
J	Thermotechnical instalations for neutral sectioning post (PSN) – Zmajevo train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	53,231	53,231	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	9,393	9,393	6/1
K	Thermotechnical instalations in station building Vrbas						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	58,405	58,405	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	10,306	10,306	6/1
L	Thermotechnical instalations of SS and TC buildings in Vrbas station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	126,975	126,975	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	22,407	22,407	6/1
M	Thermotechnical instalations of traction substation building in Vrbas train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	67,254	67,254	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	11,868	11,868	6/1
N	Thermotechnical instalations of SS and TC buildings in Lovćenac station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	117,409	117,409	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	20,719	20,719	6/1
O	Thermotechnical instalations for sectioning post in Lovćenac train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	53,231	53,231	6/1

12. Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Thermotechnical installations		Completion of the thermotechnical installation	1	9,393	9,393	6/1
P	Thermotechnical instalations of traction substation building in Bačka Topola train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	20,551	20,551	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	3,626	3,626	6/1
Q	Thermotechnical instalations of SS and TC buildings in Bačka Topola train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	131,382	131,382	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	23,185	23,185	6/1
R	Thermotechnical instalations for neutral sectioning post (PSN) – Bačka Topola train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	53,231	53,231	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	9,393	9,393	6/1
S	Thermotechnical instalations of SS and TC buildings in Žednik station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	122,061	122,061	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	21,540	21,540	6/1
T	Thermotechnical instalations for sectioning post in Žednik train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	53,231	53,231	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	9,393	9,393	6/1
U	Thermotechnical instalations of SS and TC buildings in Naumovićevo station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	113,043	113,043	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	19,948	19,948	6/1
V	Thermotechnical instalations in station building in Subotica and underpass restroom						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	539,220	539,220	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	95,156	95,156	6/1

12. Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
W	Thermotechnical instalations of SS and TC buildings in Subotica putnička station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	145,948	145,948	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	25,755	25,755	6/1
X	Thermotechnical instalations of traction substation building in Subotica train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	67,254	67,254	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	11,868	11,868	6/1
Y	Thermotechnical instalations for sectioning post in Subotica train station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	53,231	53,231	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	9,393	9,393	6/1
Z	Thermotechnical instalations building for electrotechnical jobs in Subotica station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	28,951	28,951	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	5,109	5,109	6/1
AA	Thermotechnical installations in business building "Srbija kargo" and customs in Subotica station						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	41,363	41,363	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	7,299	7,299	6/1
AB	Thermotechnical instalations for neutral sectioning post (PSN) – state border Kelebija						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	53,231	53,231	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	9,393	9,393	6/1
AC	Termotechnical instalations of standard building for TC equpment						
1	Thermotechnical procurement		Completion of the thermotechnical procurement	1	351,732	351,732	6/1
2	Thermotechnical installations		Completion of the thermotechnical installation	1	62,070	62,070	6/1
AD	Fire suppression system						

12. Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
	Fire suppression system installations		Completion of fire suppression system installations	1	315,893	315,893	6/3
AE	Portable initial fire extinguishers in Novi Sad Railway Station						
	Fire extinguishers		Completion of portable initial fire extinguishers installations	1	4,037	4,037	E2/1.1
AF	Portable initial fire extinguishers in Subotica Railway Station						
	Fire extinguishers		Completion of portable initial fire extinguishers installations	1	2,567	2,567	E2/1.2
AG	Portable initial fire extinguishers						
1	ETS Novi Sad Railway Station		Completion of portable initial fire extinguishers installations	1	592	592	E2/1.3
2	ETB Novi Sad		Completion of portable initial fire extinguishers installations	1	1,941	1,941	E2/1.3
3	SS TC Sajlovo		Completion of portable initial fire extinguishers installations	1	1,753	1,753	E2/1.3
4	SS TC Rumenka		Completion of portable initial fire extinguishers installations	1	2,344	2,344	E2/1.3
5	SS TC Kisac		Completion of portable initial fire extinguishers installations	1	2,766	2,766	E2/1.3
6	TSP Kisac		Completion of portable initial fire extinguishers installations	1	668	668	E2/1.3
7	SS TC Stepanovicevo		Completion of portable initial fire extinguishers installations	1	2,941	2,941	E2/1.3
8	SS TC Zmajevo		Completion of portable initial fire extinguishers installations	1	2,114	2,114	E2/1.3
9	TSPn Zmajevo		Completion of portable initial fire extinguishers installations	1	862	862	E2/1.3
10	Vrbas station building		Completion of portable initial fire extinguishers installations	1	654	654	E2/1.3
11	SS TC Vrbas		Completion of portable initial fire extinguishers installations	1	2,796	2,796	E2/1.3
12	ETS Vrbas		Completion of portable initial fire extinguishers installations	1	592	592	E2/1.3
13	SS TC Lovcenac		Completion of portable initial fire extinguishers installations	1	2,422	2,422	E2/1.3
14	TSP Lovcenac		Completion of portable initial fire extinguishers installations	1	862	862	E2/1.3

12. Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
15	Backa Topola		Completion of portable initial fire extinguishers installations	1	703	703	E2/1.3
16	SS TC Backa Topola		Completion of portable initial fire extinguishers installations	1	2,518	2,518	E2/1.3
17	TSPn Backa Topola		Completion of portable initial fire extinguishers installations	1	2,332	2,332	E2/1.3
18	SS TC Zednik		Completion of portable initial fire extinguishers installations	1	2,144	2,144	E2/1.3
19	TSP Zednik		Completion of portable initial fire extinguishers installations	1	862	862	E2/1.3
20	SS TC Naumovicevo		Completion of portable initial fire extinguishers installations	1	1,297	1,297	E2/1.3
21	SS TC Subotica		Completion of portable initial fire extinguishers installations	1	1,562	1,562	E2/1.3
22	ETS Subotica		Completion of portable initial fire extinguishers installations	1	592	592	E2/1.3
23	TSP Subotica		Completion of portable initial fire extinguishers installations	1	858	858	E2/1.3
24	ETB Subotica		Completion of portable initial fire extinguishers installations	1	1,905	1,905	E2/1.3
25	Serbia cargo, Inspection		Completion of portable initial fire extinguishers installations	1	327	327	E2/1.3
26	TSPn Kelebija		Completion of portable initial fire extinguishers installations	1	862	862	E2/1.3
27	TC 7 locations		Completion of portable initial fire extinguishers installations	1	411	411	E2/1.3
Summary(USD)						**5,809,444**	

13. Mechanical installations and works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Novi Sad railway station						
1	Lifts	Novi Sad railway station - Wing "A" and wing "B"	Completion of installation of elevator L1	1	32,142	32,142	6/2-1
2	Lifts	Novi Sad railway station - Wing "A" and wing "B"	Completion of installation of elevator L2	1	77,140	77,140	6/2-1
B	Lifts	Novi Sad railway station	Completion of installation of each Lift	4	32,142	128,568	6/2-2
C	Lifts	TPS Novi Sad	Completion of installation of each Lift	3	34,642	103,926	6/2-3
D	Lifts	Stepanovićevo	Completion of installation of each Lift	2	34,820	69,640	6/2-4
E	Lifts	Zmajevo	Completion of installation of each Lift	2	32,142	64,284	6/2-5
F	Lifts	Vrbas	Completion of installation of each Lift	3	32,142	96,426	6/2-6
G	Lifts	Bačka Topola	Completion of installation of each Lift	2	32,142	64,284	6/2-7
H	Lifts	Žednik	Completion of installation of each Lift	2	32,142	64,284	6/2-8
I	Lifts	Naumovićevo	Completion of installation of each Lift	2	32,142	64,284	6/2-9
J	Lifts	Kisač	Completion of installation of each Lift	2	32,142	64,284	6/2-10
K	Lifts	Lovćenac	Completion of installation of each Lift	1	64,284	64,284	6/2-11
L	Lifts	Subotica	Completion of installation of each Lift	5	36,427	182,135	6/2-12
M	Garage of electrical engineering operations – OCL section Subotica						
	Garage of electrical engineering operations – OCL section Subotica		Completion of the work	1	25,713	25,713	7/2.1
N	Reconstruction of garage for electrical engineering operations - OCL section Novi Sad						
	Reconstruction of garage for electrical engineering operations - OCL section Novi Sad		Completion of the work	1	16,607	16,607	7/2.2
O	Railway weighing scales in Žednik and Bačka Topola						
	Railway weighing scales in Žednik and Bačka Topola		Completion of the work	1	196,065	196,065	7/2.3
P	Novi Sad Measuring Station						

13. Mechanical installations and works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Devices for measurement of axle-box heating (set for two tracks)		Completion of installation of the device	1	141,424	141,424	6/4
2	Devices for axle load measurement and wheel flat detection (set for two tracks)		Completion of installation of the device	1	160,708	160,708	6/4
3	Cabinet for control unit and data processing and analysis units, with heating and air-conditioning		Completion of installation of the cabinet	1	25,713	25,713	6/4
4	Power supply, single-phase OCS mast transformer		Completion of installation of power supply	1	21,214	21,214	6/4
5	Local cable network		Completion of the work	1	15,814	15,814	6/4
6	Earthworks		Completion of the work	1	1,286	1,286	6/4
7	Plain and reinforced concrete works		Completion of the work	1	900	900	6/4
8	Reinforcement works		Completion of the work	1	257	257	6/4
9	Masonry		Completion of the work	1	129	129	6/4
10	Waterproofing and heat insulation works		Completion of the work	1	386	386	6/4
11	Other works		Completion of the work	1	1,029	1,029	6/4
Q	Subotica Measuring station						
1	Devices for measurement of axle-box heating (set for two tracks)		Completion of installation of the device	1	141,424	141,424	6/4
2	Devices for axle load measurement and wheel flat detection (set for two tracks)		Completion of installation of the device	1	160,708	160,708	6/4
3	Cabinet for control unit and data processing and analysis units, with heating and air-conditioning		Completion of installation of the cabinet	1	25,713	25,713	6/4

13. Mechanical installations and works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Power supply, single-phase OCS mast transformer		Completion of installation of power supply	1	21,214	21,214	6/4
5	Local cable network		Completion of the work	1	15,814	15,814	6/4
6	Gantry for loading gauge detection equipment		Completion of the work	1	128,567	128,567	6/4
7	Loading gauge detection devices, set (sensors, cameras, flashes) for double-track line		Completion of the work	1	231,421	231,421	6/4
8	Earthworks		Completion of the work	1	2,571	2,571	6/4
9	Plain and reinforced concrete works		Completion of the work	1	2,314	2,314	6/4
10	Reinforcement works		Completion of the work	1	771	771	6/4
11	Masonry		Completion of the work	1	129	129	6/4
12	Waterproofing and heat insulation works		Completion of the work	1	900	900	6/4
13	Other works		Completion of the work	1	2,443	2,443	6/4
R	Control and monitoring						
1	Program package for controlling the operation of both measuring points		Completion of installation of the program package	1	192,851	192,851	6/4
2	Computer		Completion of installation of the computer	1	643	643	6/4
Summary(USD)						2,610,409	

14. Roads Traffic Signalization and Equipment

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Road traffic signalization and equipment from Novi Sad to Bačka Topola		Completion of installation of each road traffic signalization and equipment	23	28,882	664,286	8/2.1.1
B	Road traffic signalization and equipment from Bačka Topola to the State border (Kelebia)		Completion of installation of each road traffic signalization and equipment	20	21,427	428,540	8/2.1.2
C	Road traffic in the course of works from Novi Sad to Bačka Topola		Completion of installation of each road traffic signalization incourse of works	14	4,668	65,352	8/2.2.1
D	Road traffic in the course of works from Bačka Topola to the State border (Kelebia)		Completion of installation of each road traffic signalization incourse of works	10	6,642	66,420	8/2.2.2
E	Equipment intended for informing and guiding of passengers						
1	Information Signs at Novi Sad station		Completion of installation of information signs	1	30,578	30,578	8/3
2	Information Signs at TPS Novi Sad stop station		Completion of installation of information signs	1	5,077	5,077	8/3
3	Information Signs at Sajlovo station		Completion of installation of information signs	1	661	661	8/3
4	Information Signs at Rumenka station		Completion of installation of information signs	1	661	661	8/3
5	Information Signs at Stepanovićevo station		Completion of installation of information signs	1	4,729	4,729	8/3
6	Information Signs at Kisač station		Completion of installation of information signs	1	5,988	5,988	8/3

14. Roads Traffic Signalization and Equipment

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	Information Signs at Zmajevo station		Completion of installation of information signs	1	5,988	5,988	8/3
8	Information Signs at Vrbas station		Completion of installation of information signs	1	38,411	38,411	8/3
9	Information Signs at Lovćenac-Iđoš station		Completion of installation of information signs	1	5,988	5,988	8/3
10	Information Signs at Bačka Topola station		Completion of installation of information signs	1	10,611	10,611	8/3
11	Information Signs at Žednik station		Completion of installation of information signs	1	5,988	5,988	8/3
12	Information Signs at Naumovićevo station		Completion of installation of information signs	1	5,988	5,988	8/3
13	Information Signs at Subotica station		Completion of installation of information signs	1	25,967	25,967	8/3
Summary(USD)						**1,371,233**	

15. Landscaping, planning of platform and evironment measures

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No.of Books
A	Design of right-of-way landscaping						
	Landscaping		Completion of landscaping	1	47,155	47,155	9/2
B	Landscaping of platforms in Novi Sad railway station						
1	landscaping of platforms	Platform I, Platform II, Platform III, Platform IV, Platform Ia, Platform Ib,	Completion of the landscaping of each platform	6	127,380	764,280	9/5.1.1
2	platform walls	Platform I, Platform II, Platform III, Platform IV, Platform Ia, Platform Ib,	Completion of platform walls of each platform	6	222,115	1,332,690	9/5.1.1
C	Platform canopies in Novi Sad railway station						
1	platform canopies	Platform I, Platform II, Platform III, Platform IV	Completion of each platform canopy	4	705,412	2,821,648	9/5.1.2
D	landscaping of platforms and platform canopies in TPS Novi Sad						
1	landscaping of platforms		Completion of landscaping of platforms	1	63,158	63,158	9/5.2
2	platform walls		Completion of platform walls	1	97,881	97,881	9/5.2
E	landscaping of platforms and platform canopies in Kisač railway station						
1	landscaping of platforms	Platform I, Platform II	Completion of the landscaping of each platform	2	111,824	223,648	9/5.3
2	platform walls	Platform I, Platform II	Completion of platform wall of each platform	2	122,019	244,038	9/5.3
F	landscaping of platforms and platform canopies in Stepanovićevo stopping place						
1	landscaping of platforms	Platform I, Platform II	Completion of the landscaping of each platform	2	123,706	247,412	9/5.4

15. Landscaping, planning of platform and evironment measures

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No.of Books
2	platform walls	Platform I, Platform II	Completion of platform wall of each platform	2	110,955	221,910	9/5.4
G	landscaping of platforms and platform canopies in Zmajevo railway station						
1	landscaping of platforms	Platform I, Platform II	Completion of the landscaping of each platform	2	106,451	212,902	9/5.5
2	platform walls	Platform I, Platform II	Completion of platform wall of each platform	2	164,759	329,518	9/5.5
H	landscaping of platforms in Vrbas railway station						
1	landscaping of platforms	Platform I, Platform II, Platform III	Completion of the landscaping of each platform	3	94,753	284,259	9/5.6.1
2	platform walls	Platform I, Platform II, Platform III	Completion of platform wall of each platform	3	258,645	775,935	9/5.6.1
I	platform canopies in Vrbas railway station						
1	platform canopies	Platform I, Platform II, Platform III	Completion of each platform canopy	3	112,173	336,519	9/5.6.2
J	landscaping of platforms and platform canopies in Lovćenac railway station						
1	landscaping of platforms	Platform I, Platform II	Completion of the landscaping of each platform	2	118,853	237,706	9/5.7
2	platform walls	Platform I, Platform II	Completion of platform wall of each platform	2	104,364	208,728	9/5.7
K	landscaping of platforms and platform canopies in Bačka Topola railway station						
1	landscaping of platforms	Platform I, Platform II	Completion of the landscaping of each platform	2	198,498	396,996	9/5.8
2	platform walls	Platform I, Platform II	Completion of platform wall of each platform	2	195,611	391,222	9/5.8
L	landscaping of platforms and platform canopies in Žednik railway station						

15. Landscaping, planning of platform and evironment measures

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No.of Books
1	landscaping of platforms	Platform I, Platform II	Completion of the landscaping of each platform	2	104,135	208,270	9/5.9
2	platform walls	Platform I, Platform II	Completion of platform wall of each platform	2	122,905	245,810	9/5.9
M	landscaping of platforms and platform canopies in Naumovićevo railway station						
1	landscaping of platforms	Platform I, Platform II	Completion of the landscaping of each platform	2	116,542	233,084	9/5.10
2	platform walls	Platform I, Platform II	Completion of platform wall of each platform	2	143,500	287,000	9/5.10
N	landscaping of platforms in Subotica passenger railway station						
1	landscaping of platforms	Platform I, Platform II, Platform III, Platform IV	Completion of the landscaping of each platform	4	79,018	316,072	9/5.11.1
2	platform walls	Platform I, Platform II, Platform III, Platform IV	Completion of platform wall of each platform	4	270,009	1,080,036	9/5.11.1
O	platform canopies in Subotica passenger railway station						
	platform canopies	Platform I, Platform II, Platform III	Completion of each platform canopy	3	224,069	672,207	9/5.11.2
P	Environmental protection measures prevent noise and noise barriers						
	Environmental protection measures prevent noise and noise barriers		Completion of works	1	22,080,000	22,080,000	S3
Summary(USD)						**34,360,084**	